

Module: Introduction

Page: W0. Introduction

W0.1

Introduction

Please give a general description and introduction to your organization.

Entergy Corporation is an integrated energy company engaged primarily in electric power production and retail distribution operations. Entergy owns and operates power plants with approximately 30,000 megawatts of electric generating capacity, including more than 10,000 megawatts of nuclear power, making it one of the nation's leading nuclear generators. Entergy delivers electricity to 2.8 million utility customers in Arkansas, Louisiana, Mississippi and Texas. Entergy has annual revenues of more than \$12 billion and approximately 13,000 employees.

See the attached 2014 Annual Report, 2014 Integrated Report, and 2014 SEC Form 10-K Report.

W0.2

Reporting year

Please state the start and end date of the year for which you are reporting data.

| Period for which data is reported |
|-----------------------------------|
| Wed 01 Jan 2014 - Wed 31 Dec 2014 |

W0.3**Reporting boundary**

Please indicate the category that describes the reporting boundary for companies, entities, or groups for which water-related impacts are reported.

Companies, entities or groups over which financial control is exercised

W0.4**Exclusions**

Are there any geographies, facilities or types of water inputs/outputs within this boundary which are not included in your disclosure?

No

W0.4a**Exclusions**

Please report the exclusions in the following table

| Exclusion | Please explain why you have made the exclusion |
|-----------|--|
| | |

Further Information

Additional information can be found at www.energy.com

Attachments

Module: Current State

Page: W1. Context

W1.1

Please rate the importance (current and future) of water quality and water quantity to the success of your organization

| Water quality and quantity | Direct use importance rating | Indirect use importance rating | Please explain |
|--|-------------------------------------|---------------------------------------|---|
| Sufficient amounts of good quality freshwater available for use | Vital for operations | Important | Direct Use - Entergy produces electricity from steam electric power plants that use large amounts of freshwater. 84% of Entergy's 30,000 MWs of generating capacity use freshwater for cooling, boiler make-up water and house service water needs. The water quantity, quality, biological diversity and ambient temperatures for each freshwater body are all factors that are vitally important for Entergy's current and future power plant operations. Indirect Use - Entergy's suppliers use freshwater to produce various products that are important to company operations. An interruption in supply of freshwater could result in a disruption in product availability. |
| Sufficient amounts of recycled, brackish and/or produced water available for use | Important | Important | Direct Use - 10% of Entergy's approximately 30,000 MWs of generating capacity uses brackish water, 3% uses salt water and 3% uses recycled water. The water quantity, quality, biological diversity and ambient temperatures for each of these sources are all factors that are important for Entergy's current and future power plant operations. Indirect Use - Entergy's suppliers use brackish, salt, and recycled water to produce various products that are important to company operations. An interruption in supply of these water sources could result in a disruption in product availability. |

W1.2

For your total operations, please detail which of the following water aspects are regularly measured and monitored and provide an explanation as to why or why not

| Water aspect | % of sites/facilities/operations | Please explain |
|---|----------------------------------|---|
| Water withdrawals- total volumes | 76-100 | Entergy monitors 100% of its sites for water withdrawals. The volume of water withdrawals at the power generation plants are measured either by direct metering or, in many cases, estimated using water pump capacity and run time. Other company locations (service centers, office buildings, etc.) are supplied primarily by municipal water sources. |
| Water withdrawals- volume by sources | 76-100 | Entergy monitors 100% of its sites for water withdrawals. The volume of water withdrawals at the power generation plants are measured either by direct metering or, in many cases, estimated using water pump capacity and run time. Other company locations (service centers, office buildings, etc.) are supplied primarily by municipal water sources. |
| Water discharges- total volumes | 76-100 | Entergy monitors 100% of its sites for water discharges. Water discharges from the power generation plants are permitted by the appropriate regulatory agency. These permits identify the receiving water body, require an estimate of discharge flow, identify the treatment method, and require monitoring of various water quality parameters. All of this information is reported to the permitting agency on a regular basis. Other company locations (service centers, office buildings, etc.) are serviced primarily by municipal treatment systems. |
| Water discharges- volume by destination | 76-100 | Entergy monitors 100% of its sites for water discharges. Water discharges from the power generation plants are permitted by the appropriate regulatory agency. These permits identify the receiving water body, require an estimate of discharge flow, identify the treatment method, and require monitoring of various water quality parameters. All of this information is reported to the permitting agency on a regular basis. Other company locations (service centers, office buildings, etc.) are serviced primarily by municipal treatment systems. |
| Water discharges- volume by treatment method | 76-100 | Entergy monitors 100% of its sites for water discharges. Water discharges from the power generation plants are permitted by the appropriate regulatory agency. These permits identify the receiving water body, require an estimate of discharge flow, identify the treatment method, and require monitoring of various water quality parameters. All of this information is reported to the permitting agency on a regular basis. Other company locations (service centers, office buildings, etc.) are serviced primarily by municipal treatment systems. |
| Water discharge quality data- quality by standard effluent parameters | 76-100 | Entergy monitors 100% of its sites for water discharges. Water discharges from the power generation plants are permitted by the appropriate regulatory agency. These permits identify the receiving water body, require an estimate of discharge flow, identify the treatment method, and require monitoring of various water quality parameters. All of this information is reported to the permitting agency on a regular basis. Other company locations (service centers, office buildings, etc.) are serviced primarily by municipal treatment systems. |

| Water aspect | % of sites/facilities/operations | Please explain |
|--|----------------------------------|--|
| Water consumption- total volume | 76-100 | Entergy monitors 100% of its sites for water consumption. Water consumption at the power generation plants occurs primarily through evaporative losses during the cooling process. Entergy estimates these losses based on the technology employed at each power plant using industry loss factors. Water consumption at other company locations (service centers, office buildings, etc.) is only a small fraction of the evaporative losses described above. |
| Facilities providing fully-functioning WASH services for all workers | 76-100 | Entergy monitors 100% of its sites service water. All of Entergy's workers are provided with clean water for drinking, cooking and cleaning purposes; adequate facilities for excreta purposes, solid waste management and drainage are provided and monitored by public water systems provider. For those facilities that have private water systems, we have groundwater or surface water withdrawal limits. |

W1.2a

Water withdrawals: for the reporting year, please provide total water withdrawal data by source, across your operations

| Source | Quantity (megaliters/year) | How does total water withdrawals for this source compare to the last reporting year? | Comment |
|--------------------------------------|----------------------------|--|-------------------|
| Fresh surface water | 7173910.74 | Much lower | Reduce 9 percent |
| Brackish surface water/seawater | 5390810.73 | Much lower | Reduced 7 percent |
| Rainwater | 0 | Not applicable | |
| Groundwater - renewable | 44147.93 | Lower | Reduced 1 percent |
| Groundwater - non-renewable | 0 | About the same | |
| Produced/process water | 0 | About the same | |
| Municipal supply | 2375.18 | Much lower | Reduce 40 percent |
| Wastewater from another organization | 0 | About the same | |
| Total | 12611245.00 | Much lower | Reduced 8 percent |

W1.2b

Water discharges: for the reporting year, please provide total water discharge data by destination, across your operations

| Destination | Quantity (megaliters/year) | How does total water discharged to this destination compare to the last reporting year? | Comment |
|---------------------------------|----------------------------|---|---------------------|
| Fresh surface water | 7039581.00 | Much lower | Reduced 9 percent |
| Brackish surface water/seawater | 5348176.00 | Much lower | Reduced 7.5 percent |
| Groundwater | 0 | About the same | |
| Municipal treatment plant | 1227.00 | Much lower | Reduced 52 percent |
| Total | 12388984.00 | Much lower | Reduced 8.6 percent |

W1.2c

Water consumption: for the reporting year, please provide total water consumption data, across your operations

| Consumption (megaliters/year) | How does this consumption figure compare to the last reporting year? | Comment |
|-------------------------------|--|---------|
| 178113.00 | About the same | |

W1.3

Do you request your suppliers to report on their water use, risks and/or management?

No

W1.3a

Please provide the proportion of suppliers you request to report on their water use, risks and/or management and the proportion of your procurement spend this represents

| Proportion of suppliers % | Total procurement spend % | Rationale for this coverage |
|---------------------------|---------------------------|-----------------------------|
|---------------------------|---------------------------|-----------------------------|

W1.3b

Please choose the option that best explains why you do not request your suppliers to report on their water use, risks and/or management

| Primary reason | Please explain |
|----------------|---|
| Other: | Entergy has 111 critical Tier 1 suppliers. Selection Rationale: Tier 1 suppliers are defined and identified by several risk factors (e.g., financial, safety, environmental (water), business interruption, etc.). Proportion of Spend: 25%. Entergy was a founding member of the Electric Utility Industry Sustainable Supply Chain Alliance (EUISSCA). Throughout 2014, Entergy engaged key suppliers through EUISSCA in order to determine water-related risks associated with its key Tier 1 suppliers. EUISSCA sent surveys to suppliers asking questions related to how they were addressing sustainability, including water-related risks, within their organizations. The Alliance collaborates with contractors/suppliers by allowing them to participate in work teams that come up with recommended best practices that the industry should follow. The collaboration techniques directly impact Entergy in that we are able to gauge the progress our suppliers are making with respect to sustainability as well as include sustainability criteria in the bid evaluation-decision making process. |

W1.4

Has your organization experienced any detrimental impacts related to water in the reporting period?

No

W1.4a

Please describe the detrimental impacts experienced by your organization related to water in the reporting year

| Country | River basin | Impact indicator | Impact | Description of impact | Length of impact | Overall financial impact | Response strategy | Description of response strategy |
|---------|-------------|------------------|--------|-----------------------|------------------|--------------------------|-------------------|----------------------------------|
|---------|-------------|------------------|--------|-----------------------|------------------|--------------------------|-------------------|----------------------------------|

W1.4b

Please choose the option below that best explains why you do not know if your organization experienced any detrimental impacts related to water in the reporting year and any plans you have to investigate this in the future

| Primary reason | Future plans |
|----------------|--------------|
|----------------|--------------|

Further Information

Module: Risk Assessment

Page: W2. Procedures and Requirements

W2.1

Does your organization undertake a water-related risk assessment?

Water risks are assessed

W2.2

Please select the options that best describe your procedures with regard to assessing water risks

| Risk assessment procedure | Coverage | Scale | Please explain |
|--|------------------------------------|------------------------------|---|
| Comprehensive company-wide risk assessment | Direct operations and supply chain | All facilities and suppliers | Entergy uses an Enterprise Risk Management (ERM) program to identify, capture, and mitigate risks that would impede Supply Chain and the rest of Entergy from accomplishing its objectives. Facilitated sessions are conducted across the Company with each business leader, along with knowledgeable financial and operational personnel from each group. Since the original implementation of ERM, Internal Audit continues to monitor the functional groups with updating their risk profile. Water is identified Entergy has identified water as a "Risk Factor" in its public disclosures and this risk is described in the SEC Form 10-K (pgs. 291-292) and is evaluated/updated on a quarterly basis. Additionally, the Water Peer Group, which includes representatives from all of Entergy's business functions, monitors water stressed areas on a quarterly basis using the WRI Aqueduct map and data or similar resources. Some suppliers are not included in this assessment if they are judged to not be material users of water. |

W2.3

Please state how frequently you undertake water risk assessments, what geographical scale and how far into the future you consider risks for each assessment

| Frequency | Geographic scale | How far into the future are risks considered? | Comment |
|--------------------------------|------------------|---|--|
| Six-monthly or more frequently | Country | >6 years | Entergy has identified water as a "Risk Factor" in its public disclosures. This risk is described in the SEC Form 10-K (pgs. 291-292) and is evaluated/updated on a quarterly basis. Additionally, the Water Peer Group, which includes representatives from all of Entergy's business functions, monitors water stressed areas on a quarterly basis using the WRI Aqueduct map and data or similar resources. |

W2.4

Have you evaluated how water risks could affect the success (viability, constraints) of your organization's growth strategy?

Yes, evaluated over the next 10 years

W2.4a

Please explain how your organization evaluated the effects of water risks on the success (viability, constraints) of your organization's growth strategy?

One of Entergy's three strategic imperatives in 2014 was to aggressively grow the utility business.

On an ongoing basis, we analyze material economic, environmental and social issues that impact our ability to create value for our stakeholders. Water was identified as a material issue in 2014. Water matters to our business because increased federal and state regulation of water pollutant discharges, cooling water intake structures for electric generating units and other water regulations, including the proposed Waters of the United States rule, continues to be a driver of business decisions regarding fuel supply, design, location, purchase, construction of electric generating units, transmission and distribution projects, and regional economic development.

Evaluation: Material environmental issues are identified by monitoring developments in environmental legislation, regulation, case law, agency guidance and other actions. Entergy's water peer group facilitates the identification and transfer of information on water-related material risks/opportunities to the business.

Example:

1) An industrial renaissance is driving economic development along the Gulf Coast. The chemical, petroleum refining, and pulp and paper industries drove significant industrial growth in Louisiana and Texas in 2014. Mississippi and Arkansas are experiencing growth in manufacturing, steel, automotive and biomass.

Economic development generates demand for power and helps us maintain rate stability; fund investments to modernize our infrastructure to enhance reliability and better serve our customers, earn our authorized returns on our investments and strengthen our communities by bringing in new jobs and boosting the local economy. The availability of useable water resources is a critical factor to enable and sustain this growth.

2) Entergy has processes and procedures, such as the Louisiana Watershed Study, by which the results of the assessment inform our growth strategy. Entergy is supporting, through its participation in the USBCSD Water Synergy Project, the development of a watershed simulation model that will forecast future trends and changes under various scenarios and assumptions.

3) The company's utility growth strategy has not changed as a result of this analysis.

W2.4b

What is the main reason for not having evaluated how water risks could affect the success (viability, constraints) of your organization's growth strategy, and are there any plans in place to do so in the future?

| Main reason | Current plans | Timeframe until evaluation | Comment |
|-------------|---------------|----------------------------|---------|
| | | | |

W2.5

Please state the methods used to assess water risks

| Method | Please explain how these methods are used in your risk assessment |
|---|---|
| Internal company knowledge WRI water | Entergy has identified water as a "Risk Factor" in its public disclosures. This risk is described in the SEC Form 10-K (pgs. 291-292) and is evaluated/updated on a quarterly basis. Additionally, the Water Peer Group, which includes representatives from all of Entergy's business functions, monitors water stressed areas on a quarterly basis using the WRI Aqueduct map and data or similar resources. Also, water-based risks are included in Entergy's Enterprise Risk Management (ERM) processes and in its Corporate Risk Committee (CRC) investment review |

| Method | Please explain how these methods are used in your risk assessment |
|-----------------------------------|---|
| stress definition WRI Aqueduct | processes. The three methods are integrated as part of Entergy's overall ERM process and updated by each programs subject matter expert as needed. The methods were selected based on historical accuracy and for consistency. The operational scope of the risk assessment covers all major aspects of water withdrawal, use and discharge parameters. |

W2.6

Which of the following contextual issues are always factored into your organization's water risk assessments?

| Issues | Choose option | Please explain |
|---|--|---|
| Current water availability and quality parameters at a local level | Relevant, included for some facilities/suppliers | Rationale: Entergy's Lewis Creek plant is located in Montgomery County, Texas, which is a water-restricted area as defined by the county utility district. This plant represented approximately 2% of Entergy's overall generation in 2014 and is the only plant that is currently in an area that is restricting water use. A coordinated effort to reduce groundwater consumption by 30% by 2016 was put into place in 2010 - the facility is on schedule to complete this effort by the end of 2015. Other water-stressed areas would be managed similarly. |
| Current water regulatory frameworks and tariffs at a local level | Relevant, included | The method used to assess this issue was WRI Aqueduct. Entergy's power plants are governed by the Clean Water Act and regulated through state or federal water discharge permits to ensure maintenance of high levels of water quality and to ensure biological diversity of the water withdrawal and discharge receiving body. These factors are affected by ambient conditions such as the quantity, quality, temperature and environmental health of the water body. Other water-stressed areas would be managed similarly. |
| Current stakeholder conflicts concerning water resources at a local level | Relevant, included for some facilities/suppliers | Rationale: Entergy's Lewis Creek plant is located in Montgomery County, Texas, a water-restricted area as defined by the county utility district. This plant represented ~ 2% of Entergy's overall generation in 2014 and is the only plant currently in an area that is restricting water use. The method used to assess this issue was internal company knowledge. At Lewis Creek, Entergy is engaged and working with stakeholders on resolving potential future conflicts with regards to water issues. An additional example of engagement is Entergy's continued its sponsorship of the USBCS Water Synergy Project to determine beneficial uses for process water discharges across sectors. Additionally, Entergy is sponsoring development of a water simulation that will allow individuals to experience the trade-offs necessary when decisions are |

| Issues | Choose option | Please explain |
|--|--------------------|---|
| | | made regarding water usage. See http://water-synergy.org/ for additional information. |
| Current implications of water on your key commodities/raw materials | Relevant, included | The method used to assess this issue was internal company knowledge .Entergy produces electricity from steam electric power plants that use large amounts of water cooling, boiler make-up water and house service water needs. The water quantity, quality, biological diversity and ambient temperatures are all factors that are vitally important for Entergy's current and future power plant operations. |
| Current status of ecosystems and habitats at a local level | Relevant, included | The method used to assess this issue was WRI water stress definition. Entergy has developed extensive databases for aquatic resources from which its facilities draw cooling or service water. Extensive information has been gathered, in particular, regarding areas of the lower Hudson River, the Connecticut River, Cape Cod, Lake Ontario, and the Mississippi River near Entergy facilities. Entergy also has gathered information regarding water bodies into which it discharges, or from which it draws cooling and service water at many of its fossil-fuel facilities. |
| Current river basin management plans | Relevant, included | The method used to assess this issue was WRI Aqueduct. Entergy participates in discussions with local and regional groups and interacts with local, regional, and state agencies regarding relevant river basin management plans. For example, Entergy is participating in the USBCSD and many other stakeholders on the update of the nutrient study of the Mississippi River. This study is evaluating the nutrient loading of the Mississippi River Basin as the river flows into the State of Louisiana, the additional nutrient loading as it flows through the state, and then the final nutrient levels when the river discharges into the Gulf of Mexico. |
| Current access to fully-functioning WASH services for all employees | Relevant, included | The method used to assess this issue was internal company knowledge. All of Entergy's workers are provided with clean water for drinking, cooking and cleaning purposes, adequate facilities for excreta purposes, solid waste management and drainage, and hygiene information and education. |
| Estimates of future changes in water availability at a local level | Relevant, included | The method used to assess this issue was WRI water stress definition. Entergy is supporting an EPRI project that provides watershed level water mapping for the Lower Arkansas River Basin, which includes our White Bluff and Arkansas Nuclear One plants. The model takes into account historical water body and groundwater usages for every consumer in the basin and models availability for the next 40 years. Then it runs scenarios to guide future decision making for water users in the basin. See also, Lewis Creek description, above. |
| Estimates of future potential regulatory changes at a local level | Relevant, included | The method used to assess this issue was internal company knowledge .Scenario and impact analysis is conducted for regulatory changes at the local level and this analysis is presented to environmental and regulatory leadership for information and strategy development. Entergy has a strong risk management culture and has systems in place to track regulatory changes at the national, regional, state and local level. The regulatory tracking includes potential regulatory changes to water use, withdrawal rights, discharge standards or water pricing/tariffs. |
| Estimates of future potential stakeholder conflicts at a local level | Relevant, included | The method used to assess this issue was WRI water stress definition. Entergy estimates future potential stakeholder conflicts primarily centered on the impacts on a variety of species |

| Issues | Choose option | Please explain |
|---|--------------------|---|
| | | and water body uses in the Hudson River, the Cape Cod area, Lake Ontario and the Connecticut River, and regarding the EPA's Clean Water Act § 316(b) cooling water intake structure rules, which deal with aquatic species in cooling water. Our Lewis Creek Plant is actively engaged in dialogue with their supplier (San Jacinto River Authority), including on potential conflicts. |
| Estimates of future implications of water on your key commodities/raw materials | Relevant, included | The method used to assess this issue was internal company knowledge. Entergy's product (electricity) and primary raw material (fuel) are dependent on the availability of water. Implications of water stress or shortages may include power plant curtailments and fuel availability. |
| Estimates of future potential changes in the status of ecosystems and habitats at a local level | Relevant, included | The method used to assess this issue was WRI water stress definition. Entergy is engaged with others in encouraging meaningful action to stem the loss of coastal wetlands and barrier island systems recognizing the value these estuaries have on ensuring continued ecosystem services, biological diversity and protection of coastal communities from climate change impacts. This restoration depends upon anticipating and successfully factoring in relative sea level rise over time. |
| Scenario analysis of availability of sufficient quantity and quality of water relevant for your operations at a local level | Relevant, included | The method used to assess this issue was WRI Aqueduct. Entergy worked with the U.S. Army Corp of Engineers to assess and find ways to effectively manage risks to the quality of water supply in and near New Orleans from a scenario where, during times of low flow in the Mississippi, a salt water wedge could extend 80+ miles upriver and could adversely impact drinking water supply to the city of New Orleans as well as cooling water quality for Entergy power plants. We worked out communication systems and contingency plans for minimizing the impacts. |
| Scenario analysis of regulatory and/or tariff changes at a local level | Relevant, included | The method used to assess this issue was internal company knowledge. Scenario and impact analysis is conducted for regulatory changes at the local level and this analysis is presented to environmental and regulatory leadership for information and strategy development. Entergy has a strong risk management culture and has systems in place to track regulatory changes at the national, regional, state and local level. The regulatory tracking includes potential regulatory changes to water use, withdrawal rights, discharge standards or water pricing/tariffs. |
| Scenario analysis of stakeholder conflicts concerning water resources at a local level | Relevant, included | The method used to assess this issue was internal company knowledge. Water issues are included in a scenario analysis Entergy conducts as part of its overall due diligence review and analysis of any expansion, acquisition, new project or investment. Depending on the project, scenario analysis may include water availability issues, quality issues, intake concerns and water-related biodiversity impacts. |
| Scenario analysis of implications of water on your key commodities/raw materials | Relevant, included | The method used to assess this issue was internal company knowledge. Water issues are included in a scenario analysis Entergy conducts as part of its overall due diligence review and analysis of any expansion, acquisition, new project or investment. Depending on the project, scenario analysis may include water availability issues, quality issues, intake concerns and |

| Issues | Choose option | Please explain |
|--|--------------------|--|
| | | water-related biodiversity impacts. |
| Scenario analysis of potential changes in the status of ecosystems and habitats at a local level | Relevant, included | The method used to assess this issue was internal company knowledge. Water issues are included in a scenario analysis Entergy conducts as part of its overall due diligence review and analysis of any expansion, acquisition, new project or investment. Depending on the project, scenario analysis may include water availability issues, quality issues, intake concerns and water-related biodiversity impacts. |
| Other | Not evaluated | Not applicable. |

W2.7

Which of the following stakeholders are always factored into your organization's water risk assessments?

| Stakeholder | Choose option | Please explain |
|-------------------|--|---|
| Customers | Relevant, included for some facilities/suppliers | Rationale: Entergy has customers that live in coastal communities. Entergy is engaged with others in encouraging meaningful action to stem the loss of coastal wetlands and barrier island systems recognizing the value these estuaries have on ensuring continued ecosystem services, biological diversity and protection of coastal communities from climate change impacts. This restoration depends upon anticipating and successfully factoring in relative sea level rise over time. Entergy's assessments work primarily with those individuals and customer groups that represent our primary stakeholders' views and offer the experience necessary for valued input. |
| Employees | Relevant, included | Entergy employees are the foundation for managing water risks. Entergy formed the Water Peer Group in 2002 where employee subject matter experts meet to discuss water intake, scarcity and quality issues. In 2014 the group focused on water stress mapping, water foot printing and emerging regulatory issues. Entergy employees also participates in various industry groups that monitor both water quantity and quality issues at the national, regional and state levels and benchmark performance. |
| Investors | Relevant, included | Communicating to investors that Entergy is effectively managing risk is vitally important. Entergy's Enterprise Risk Management (ERM) process and investment approval process (IAP) are comprehensive Company-wide processes used to analyze business risks. The analysis includes climate change issues and physical risks including those related to water quantity / quality and stakeholder water utilization issues. |
| Local communities | Relevant, included | Entergy is actively engaged with state and local planning groups working on the Baton Rouge groundwater |

| Stakeholder | Choose option | Please explain |
|--|------------------------------------|--|
| | | and Lewis Creek groundwater issues, regulatory interest groups working on drought/water rights legislation in Texas, and in with water allocation interest groups for the watershed planning in White River and Arkansas River valleys in Arkansas. |
| NGOs | Relevant, included | Entergy is working with the state of Louisiana, NGO's and businesses on the Louisiana Freshwater Assessment Project to build a baseline assessment of freshwater resources in our service territory so that we make informed as we make important decisions regarding freshwater water in the future. |
| Other water users at a local level | Relevant, included | Entergy is working with local business leaders and the USBCSD to achieve tangible water conservation and quality improvements, and establish a long-term water collaboration plan in the region by harnessing collective industry capabilities and interests. Business leaders from multiple industries together to identify challenges related to water quality, quantity, and storm water; identify practical solutions; and work together to implement those solutions. http://water-synergy.org/ |
| Regulators | Relevant, included | As a user of water resources, Entergy is regulated by several local, state and federal regulators. These agencies and their regulations are a key consideration in evaluation of water risk. |
| River basin management authorities | Relevant, included | River basin management authorities are key stakeholders in evaluation of water risk within their jurisdiction and are consulted as appropriate. |
| Statutory special interest groups at a local level | Relevant, included | The Vermont Yankee Citizens Advisory Panel is a statutory special interest group for the decommissioning of the Vermont Yankee Nuclear Power Plant. This panel is regularly engaged on environmental issues including water-quality as part of the decommissioning process. |
| Suppliers | Relevant, included | Entergy is a founding member of EUISSCA, formed to promote environmental stewardship among utility suppliers and to provide value to customers and shareholders. Its goal is to work with industry suppliers to improve environmental performance and advance sustainable business practices. By working as a group, member companies expect to more effectively and efficiently engage suppliers to improve impacts on air emissions, water consumption, waste disposal and energy-efficiency. |
| Water utilities/suppliers at a local level | Relevant, included | Entergy works with the Lone Star Water Conservation District, a local agency affiliated with Entergy's Lewis Creek Plant, to track and monitor water availability at the local level surrounding our only plant in a water-stressed area. |
| Other | Not relevant, explanation provided | Entergy does not have 'other' water stakeholders that are not already included in the stakeholder list. |

W2.8

Please choose the option that best explains why your organisation does not undertake a water-related risk assessment

| | |
|----------------|----------------|
| Primary reason | Please explain |
|----------------|----------------|

Further Information**Module: Implications****Page: W3. Water Risks**

W3.1

Is your organization exposed to water risks, either current and/or future, that could generate a substantive change in your business, operations, revenue or expenditure?

Yes, direct operations and supply chain

W3.2

Please provide details as to how your organization defines substantive change in your business, operations, revenue or expenditure from water risk

Entergy views substantive change as any water risk issue having the potential to rise to the materiality level requiring SEC disclosure.

The measure(s) used in the definition of substantive change are: a) any water risk issue potentially resulting in a compliance violation, permit exceedance, or breach of an agreement, or b) any physical water risk that could interrupt operation of power plants.

The threshold used is a change in the metric/measure/indicator which indicates substantive impact on direct operations, supply chain or both. Thresholds vary by indicator. For example, any single permit exceedance would meet the threshold for that indicator.

The frequency and process for review: The metrics and thresholds above are reviewed or updated and reported quarterly, first through the Water Peer Group and

subject matter experts then again reviewed during the Enterprise Risk Mgmt Process (ERM)

W3.2a

Please provide the number of facilities* per river basin exposed to water risks that could generate a substantive change in your business, operations, revenue or expenditure and the proportion of total operations this represents

| Country | River basin | Number of facilities | Proportion of total operations exposed to risk within river basin (%) | Comment |
|--------------------------|--|----------------------|---|--|
| United States of America | Mississippi River | 3 | 91-100 | Includes: 1. River Bend Station, 2. Grand Gulf and 3. Waterford 3 |
| United States of America | Other: Arkansas River | 1 | 91-100 | Includes Arkansas Nuclear One - cooling water from Lake Dardanelle |
| United States of America | Other: Quachita | 2 | 91-100 | Includes hydroelectric facilities: 1. Rammel Dam 2. Carpenter Dam |
| United States of America | Hudson River | 1 | 91-100 | Includes IPEC 1&2 |
| United States of America | Other: Oswego River/Lake Ontario | 1 | 91-100 | Includes Fitzpatrick - once through system with diffused discharge |
| United States of America | Other: San Jacinto River (Lewis Creek Reservoir) | 1 | 91-100 | Includes Lewis Creek |

W3.2b

Please provide the proportion of financial value that could be affected at river basin level associated with the facilities listed in W3.2a

| Country | River basin | Financial reporting metric | Proportion of chosen metric that could be affected within the river basin | Comment |
|--------------------------|--------------------------------|----------------------------|---|--|
| United States of America | Other: Basins provided in 3.2a | % generation capacity | 91-100 | Similar for all facilities noted in 3.2a |

W3.2c

Please list the inherent water risks that could generate a substantive change in your business, operations, revenue or expenditure, the potential impact to your direct operations and the strategies to mitigate them

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|--------------------------|----------------------------|-------------------|------------------------------------|---|----------------------|------------|---|--|--|---|
| United States of America | Other: Lewis Creek Station | Physical-Flooding | Other: Reduced Electric Production | During periods of river flood stage, the electric generation from the plant may need to be reduced. | Current-up to 1 year | Probable | Medium-high | Increased capital expenditure Increased investment in new technology Promote best practice and awareness | Financial investment will depend on the specific project, unable to estimate at this time. Implementation costs vary considerably based on level of process change option selected. | Entergy undertook a long-term strategic study of water availability for its Lewis Creek Plant. The study included analysis of the groundwater wells and water plant system at Lewis Creek, the facility developed a |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|--------------------------|-------------------|-------------------|------------------------------------|--|----------------------|------------|---|--|--|---|
| | | | | | | | | | | plan to meet the 30 percent reduction requirements using conservation methods through process design changes |
| United States of America | Mississippi River | Physical-Flooding | Other: Reduced Electric Production | River flooding curtailing operations at the power plants | Current-up to 1 year | Probable | Medium-high | River basin restoration Promote best practice and awareness | Entergy gave a \$500,000 grant to The Nature Conservancy in Mississippi to implement bottomland hardwood and wetland restoration practices. The project has the potential to restore at least 4,000 acres in the lower Yazoo River Basin and support landowners in a region that Through this effort, The Nature Conservancy and Entergy are | Continue to support watershed research; Entergy's \$500,000 grant will leverage up to \$8.4 million in funds for restoration practices. Shift energy production to other units until river levels subside |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|--------------------------|-------------|-------------|----------------------|--|-----------|------------|---|-------------------|--|--|
| | | | | | | | | | seeking new ways to improve water quality and the quality of life in Mississippi and the Gulf of Mexico. | |
| United States of America | | | Delays in permitting | Impingement and Entrainment | 4-6 years | Probable | Medium | | | Entergy is dealing with issues related to EPA's interpretation of 316(b) guidelines, which could significantly impact cooling water processes at several facilities, and EPA's development of effluent guidelines for electricity generating units (EGUs). |
| United States of America | | | Delays in permitting | Entergy's ability to operate is contingent upon the receipt of relevant regulatory | 4-6 years | Probable | Medium | | | Entergy is dealing with issues related to EPA's interpretation of 316(b) guidelines, |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|--------------------------|-------------|-------------|------------------------------------|---|-----------|------------|---|-------------------|----------------------------|---|
| | | | | permits and permissions. This ability may be compromised if the relevant regulatory agencies do not issue needed permits. | | | | | | which could significantly impact cooling water processes at several facilities, and EPA's development of effluent guidelines for electricity generating units (EGUs). |
| United States of America | | | Other: Requirement for remediation | Entergy's ability to operate is contingent upon the receipt of relevant regulatory permits and permissions. This ability may be compromised if the relevant regulatory agencies and stakeholders do not have confidence in the company's ability to comply with | 1-3 years | Probable | Medium | | | The NRC requires nuclear power plants to regularly monitor and report the presence of radioactive material in the environment. Entergy joined other nuclear utilities and the Nuclear Energy Institute in 2006 to develop a voluntary groundwater monitoring and protection program. This |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|---------|-------------|-------------|------------------|-----------------------------|-----------|------------|---|-------------------|----------------------------|---|
| | | | | environmental requirements. | | | | | | initiative began after detection of very low levels of radioactive material, primarily tritium, in groundwater at several plants in the United States. Tritium is a radioactive form of hydrogen that occurs naturally and is also a by-product of nuclear plant operations. In addition to tritium, other radionuclides have been found in on site ground water at nuclear plants. As part of the groundwater monitoring and protection program, Entergy has: (1) performed reviews of plant groundwater |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|--------------------------|-------------|-------------|------------------------------------|--|-----------|------------|---|-------------------|----------------------------|--|
| | | | | | | | | | | characteristics (hydrology) and historical records of past events on site that may have potentially impacted groundwater; (2) implemented fleet procedures on how to handle events that could impact groundwater; and (3) installed groundwater monitoring wells and began periodic sampling. The program also includes protocols for notifying local officials if contamination is found. |
| United States of America | | | Other: Reduced Electric Production | River flooding curtailing operations at the power plant. | Unknown | Unlikely | High | | | Entergy conducted a flood event re-evaluation for Indian Point |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|--------------------------|-------------|-------------|----------------------|-----------------------------|-----------|------------|---|-------------------|----------------------------|---|
| | | | | | | | | | | Energy Center evaluating the potential impacts from various scenarios of worst case flood hazards to ensure the design basis flood protection was able to withstand flood hazards from these scenarios. Similar studies are ongoing at other units. |
| United States of America | | | Delays in permitting | Impingement and Entrainment | 4-6 years | Probable | Medium | | | Entergy has been actively engaged with the NYDEC and other parties in trying to determine what constitutes the Best Available Control Technology for minimizing impingement and entrainment of fish and larvae. |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|--------------------------|-------------|-------------|----------------------|--|-----------|------------|---|-------------------|----------------------------|---|
| | | | | | | | | | | Construction costs for retrofitting with cooling towers are estimated to be at least \$1.19 billion and a proposed alternative to the cooling towers, the use of cylindrical wedgewire screens, are expected to be approximately \$250 million to \$300 million. Entergy has also conducted extensive biological monitoring in the Hudson River to characterize fish populations. |
| United States of America | | | Delays in permitting | Entergy's ability to operate is contingent upon the receipt of relevant regulatory | 4-6 years | Probable | Medium | | | Entergy is dealing with issues related to EPA's interpretation of 316(b) guidelines, |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|--------------------------|-------------|-------------|------------------------------------|---|-----------|------------|---|-------------------|----------------------------|---|
| | | | | permits and permissions. This ability may be compromised if the relevant regulatory agencies do not issue needed permits. | | | | | | which could significantly impact cooling water processes at several facilities, and EPA's development of effluent guidelines for electricity generating units (EGUs). |
| United States of America | | | Other: Requirement for remediation | Entergy's ability to operate is contingent upon the receipt of relevant regulatory permits and permissions. This ability may be compromised if the relevant regulatory agencies and stakeholders do not have confidence in the company's ability to comply with | 1-3 years | Probable | Medium | | | The NRC requires nuclear power plants to regularly monitor and report the presence of radioactive material in the environment. Entergy joined other nuclear utilities and the Nuclear Energy Institute in 2006 to develop a voluntary groundwater monitoring and protection program. This |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|---------|-------------|-------------|------------------|-----------------------------|-----------|------------|---|-------------------|----------------------------|---|
| | | | | environmental requirements. | | | | | | initiative began after detection of very low levels of radioactive material, primarily tritium, in groundwater at several plants in the United States. Tritium is a radioactive form of hydrogen that occurs naturally and is also a by-product of nuclear plant operations. In addition to tritium, other radionuclides have been found in on site ground water at nuclear plants. As part of the groundwater monitoring and protection program, Entergy has: (1) performed reviews of plant groundwater |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|--------------------------|-------------|-------------|----------------------|-----------------------------|-----------|------------|---|-------------------|----------------------------|--|
| | | | | | | | | | | characteristics (hydrology) and historical records of past events on site that may have potentially impacted groundwater; (2) implemented fleet procedures on how to handle events that could impact groundwater; and (3) installed groundwater monitoring wells and began periodic sampling. The program also includes protocols for notifying local officials if contamination is found. |
| United States of America | | | Delays in permitting | Impingement and Entrainment | 1-3 years | Probable | Medium | | | Entergy is dealing with issues related to EPA's interpretation of |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|--------------------------|-------------|-------------|------------------------------------|--|-----------|------------|---|-------------------|----------------------------|--|
| | | | | | | | | | | 316(b) guidelines, which could significantly impact cooling water processes at several facilities, and EPA's development of effluent guidelines for electricity generating units (EGUs). |
| United States of America | | | Other: Reduced Electric Production | River flooding curtailing operations at the power plant. | Unknown | Unlikely | Medium | | | Shift energy production to other reserve units until river levels subside |
| United States of America | | | Other: Reduced Electric Production | River flooding curtailing operations at the power plant | Unknown | Unlikely | Medium | | | Shift energy production to other reserve units until water levels subside |
| United States of America | | | Delays in permitting | Impingement and Entrainment | 4-6 years | Probable | Medium | | | Entergy is dealing with issues related to EPA's interpretation of 316(b) guidelines, which could significantly |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|--------------------------|-------------|-------------|------------------------|--|-----------|------------|---|-------------------|----------------------------|--|
| | | | | | | | | | | impact cooling water processes at several facilities, and EPA's development of effluent guidelines for electricity generating units (EGUs). |
| United States of America | | | Delays in permitting | Entergy's ability to operate is contingent upon the receipt of relevant regulatory permits and permissions. This ability may be compromised if the relevant regulatory agencies do not issue needed permits. | 4-6 years | Probable | Medium | | | Entergy is dealing with issues related to EPA's interpretation of 316(b) guidelines, which could significantly impact cooling water processes at several facilities, and EPA's development of effluent guidelines for electricity generating units (EGUs). |
| United States of | | | Other: Requirement for | Entergy's ability to operate is contingent | 1-3 years | Probable | Medium | | | The NRC requires nuclear power plants to |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|---------|-------------|-------------|------------------|--|-----------|------------|---|-------------------|----------------------------|---|
| America | | | remediation | upon the receipt of relevant regulatory permits and permissions. This ability may be compromised if the relevant regulatory agencies and stakeholders do not have confidence in the company's ability to comply with environmental requirements. | | | | | | regularly monitor and report the presence of radioactive material in the environment. Entergy joined other nuclear utilities and the Nuclear Energy Institute in 2006 to develop a voluntary groundwater monitoring and protection program. This initiative began after detection of very low levels of radioactive material, primarily tritium, in groundwater at several plants in the United States. Tritium is a radioactive form of hydrogen that occurs naturally and is also a by-product of |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|---------|-------------|-------------|------------------|-----------------------|-----------|------------|---|-------------------|----------------------------|---|
| | | | | | | | | | | <p>nuclear plant operations. In addition to tritium, other radionuclides have been found in on site ground water at nuclear plants. As part of the groundwater monitoring and protection program, Entergy has: (1) performed reviews of plant groundwater characteristics (hydrology) and historical records of past events on site that may have potentially impacted groundwater; (2) implemented fleet procedures on how to handle events that could impact groundwater; and (3) installed</p> |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|--------------------------|-------------|-------------|------------------------------------|--|-----------|------------|---|-------------------|----------------------------|--|
| | | | | | | | | | | groundwater monitoring wells and began periodic sampling. The program also includes protocols for notifying local officials if contamination is found. |
| United States of America | | | Other: Reduced Electric Production | Storm surge curtailing operations at the power plant | Unknown | Unlikely | Medium | | | Shift energy production to other reserve units until water levels subside; advocate for public investment in cost-effective adaptation measures |
| United States of America | | | Delays in permitting | Impingement and Entrainment | 4-6 years | Probable | Medium | | | Entergy is dealing with issues related to EPA's interpretation of 316(b) guidelines, which could significantly impact cooling water processes |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|--------------------------|-------------|-------------|------------------------------------|--|-----------|------------|---|-------------------|----------------------------|--|
| | | | | | | | | | | at several facilities, and EPA's development of effluent guidelines for electricity generating units (EGUs). |
| United States of America | | | Delays in permitting | Entergy's ability to operate is contingent upon the receipt of relevant regulatory permits and permissions. This ability may be compromised if the relevant regulatory agencies do not issue needed permits. | 4-6 years | Probable | Medium | | | Entergy is dealing with issues related to EPA's interpretation of 316(b) guidelines, which could significantly impact cooling water processes at several facilities, and EPA's development of effluent guidelines for electricity generating units (EGUs). |
| United States of America | | | Other: Requirement for remediation | Entergy's ability to operate is contingent upon the receipt of | 1-3 years | Probable | Medium | | | The NRC requires nuclear power plants to regularly monitor and |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|---------|-------------|-------------|------------------|---|-----------|------------|---|-------------------|----------------------------|---|
| | | | | <p>relevant regulatory permits and permissions. This ability may be compromised if the relevant regulatory agencies and stakeholders do not have confidence in the company's ability to comply with environmental requirements.</p> | | | | | | <p>report the presence of radioactive material in the environment. Entergy joined other nuclear utilities and the Nuclear Energy Institute in 2006 to develop a voluntary groundwater monitoring and protection program. This initiative began after detection of very low levels of radioactive material, primarily tritium, in groundwater at several plants in the United States. Tritium is a radioactive form of hydrogen that occurs naturally and is also a by-product of nuclear plant operations. In</p> |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|---------|-------------|-------------|------------------|-----------------------|-----------|------------|---|-------------------|----------------------------|---|
| | | | | | | | | | | <p>addition to tritium, other radionuclides have been found in on site ground water at nuclear plants. As part of the groundwater monitoring and protection program, Entergy has: (1) performed reviews of plant groundwater characteristics (hydrology) and historical records of past events on site that may have potentially impacted groundwater; (2) implemented fleet procedures on how to handle events that could impact groundwater; and (3) installed groundwater monitoring wells</p> |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|--------------------------|-------------|-------------|------------------------------------|---|-----------|------------|---|-------------------|----------------------------|--|
| | | | | | | | | | | and began periodic sampling. The program also includes protocols for notifying local officials if contamination is found. |
| United States of America | | | Other: Reduced Electric Production | River flooding curtailing operations at the power plant | Unknown | Unlikely | Medium | | | Shift energy production to other reserve units until water levels subside |
| United States of America | | | Delays in permitting | Impingement and Entrainment | 4-6 years | Probable | Medium | | | Entergy is dealing with issues related to EPA's interpretation of 316(b) guidelines, which could significantly impact cooling water processes at several facilities, and EPA's development of effluent guidelines for electricity generating units |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|--------------------------|-------------|-------------|------------------------------------|--|-----------|------------|---|-------------------|----------------------------|--|
| | | | | | | | | | | (EGUs). |
| United States of America | | | Delays in permitting | Entergy's ability to operate is contingent upon the receipt of relevant regulatory permits and permissions. This ability may be compromised if the relevant regulatory agencies do not issue needed permits. | 4-6 years | Probable | Medium | | | Entergy is dealing with issues related to EPA's interpretation of 316(b) guidelines, which could significantly impact cooling water processes at several facilities, and EPA's development of effluent guidelines for electricity generating units (EGUs). |
| United States of America | | | Other: Requirement for remediation | Entergy's ability to operate is contingent upon the receipt of relevant regulatory permits and permissions. This ability may be compromised if the relevant | 1-3 years | Probable | Medium | | | The NRC requires nuclear power plants to regularly monitor and report the presence of radioactive material in the environment. Entergy joined other nuclear utilities and the |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|---------|-------------|-------------|------------------|---|-----------|------------|---|-------------------|----------------------------|--|
| | | | | regulatory agencies and stakeholders do not have confidence in the company's ability to comply with environmental requirements. | | | | | | Nuclear Energy Institute in 2006 to develop a voluntary groundwater monitoring and protection program. This initiative began after detection of very low levels of radioactive material, primarily tritium, in groundwater at several plants in the United States. Tritium is a radioactive form of hydrogen that occurs naturally and is also a by-product of nuclear plant operations. In addition to tritium, other radionuclides have been found in on site ground water at nuclear plants. As part of the |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|---------|-------------|-------------|------------------|-----------------------|-----------|------------|---|-------------------|----------------------------|--|
| | | | | | | | | | | <p>groundwater monitoring and protection program, Entergy has: (1) performed reviews of plant groundwater characteristics (hydrology) and historical records of past events on site that may have potentially impacted groundwater; (2) implemented fleet procedures on how to handle events that could impact groundwater; and (3) installed groundwater monitoring wells and began periodic sampling. The program also includes protocols for notifying local officials if</p> |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|---------|-------------|-------------|------------------|-----------------------|-----------|------------|---|-------------------|----------------------------|-------------------------------|
| | | | | | | | | | | contamination is found. |

W3.2d

Please list the inherent water risks that could generate a substantive change in your business operations, revenue or expenditure, the potential impact to your supply chain and the strategies to mitigate them

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|--------------------------|-----------------------|-------------------|------------------------------------|---|-----------|------------|---|--|----------------------------|---|
| United States of America | Other: Arkansas River | Physical-Flooding | Other: Reduced Electric Production | Entergy's fossil generation facilities are at risk for obtaining fuel supplies during severe weather events. Examples of such occurrences are flooding in the Midwest to the extent the rail shipments of coal were curtailed and | Unknown | Probable | Low-medium | Develop flood emergency plans Increased capital expenditure Promote best practice and awareness Supplier diversification Water management incentives | | Alternate sources of fuel are identified and acquired to maintain generation activities at the sites. Most of Entergy's gas units can also burn fuel oil and reserves are maintained to provide an alternative source of fuel. An inventory of coal is stockpiled |

| Country | River basin | Risk driver | Potential impact | Description of impact | Timeframe | Likelihood | Magnitude of potential financial impact | Response strategy | Costs of response strategy | Details of strategy and costs |
|---------|-------------|-------------|------------------|--|-----------|------------|---|-------------------|----------------------------|---|
| | | | | during hurricane event when natural gas supplies were curtailed. | | | | | | onsite to minimize impacts from temporary supply interruptions. |

W3.2e

Please choose the option that best explains why you do not consider your organization to be exposed to water risks in your direct operations that could generate a substantive change in your business, operations, revenue or expenditure

| | |
|----------------|----------------|
| Primary reason | Please explain |
|----------------|----------------|

W3.2f

Please choose the option that best explains why you do not consider your organization to be exposed to water risks in your supply chain that could generate a substantive change in your business, operations, revenue or expenditure

| | |
|----------------|----------------|
| Primary reason | Please explain |
|----------------|----------------|

W3.2g

Please choose the option that best explains why you do not know if your organization is exposed to water risks that could generate a substantive change in your business operations, revenue or expenditure and discuss any future plans you have to assess this

| | |
|----------------|--------------|
| Primary reason | Future plans |
|----------------|--------------|

Further Information

Page: W4. Water Opportunities

W4.1

Does water present strategic, operational or market opportunities that substantively benefit/have the potential to benefit your organization?

Yes

W4.1a

Please describe the opportunities water presents to your organization and your strategies to realize them

| Country or region | Opportunity | Strategy to realize opportunity | Estimated timeframe | Please explain |
|-------------------|-------------------|--|---------------------|---|
| United States of | Carbon management | Entergy has the opportunity to invest in more efficient methods of | 4-6 years | Entergy, through its fleet transformation strategy and Integrated Resource Plans is making investments that are reducing Entergy's water footprint. |

| Country or region | Opportunity | Strategy to realize opportunity | Estimated timeframe | Please explain |
|-------------------|--|---|---------------------|--|
| America | Climate change adaptation Ensuring supply chain resilience Increased brand value Improved community relations Increased shareholder value Improved water efficiency | generating electricity that also reduce water use requirements while reducing customers cost of energy. | | These investments include 1) acquiring closed cooling cycle, natural gas fired Combined Cycle Gas Turbine (CCGT) generating capacity; and 2) investing in cost effective demand side management and energy efficiency initiatives. Additionally, Entergy currently operates only one facility (Lewis Creek) in a water-stressed area; the relative abundance of water in Entergy's service territory can create additional value. Financial implications of the strategy: Entergy plans on spending \$1.67 billion in clean, low-emitting CCGT generating units during 2015-2017. 2014 case study: 1. Our Ninemile 6 electric generation plant was placed into service in December 2014 at an ~ cost of \$655 million to construct when spending is complete, 2. The Union Power Station, a 1,980 MW power generation facility base purchase price is expected to be approximately \$948 million (approximately \$237 million for each power block). |

W4.1b

Please choose the option that best explains why water does not present your organization with any opportunities that have the potential to provide substantive benefit

| | |
|----------------|----------------|
| Primary reason | Please explain |
|----------------|----------------|

W4.1c

Please choose the option that best explains why you do not know if water presents your organization with any opportunities that have the potential to provide substantive benefit

| | |
|----------------|----------------|
| Primary reason | Please explain |
|----------------|----------------|

Further Information

Module: Accounting

Page: W5. Facility Level Water Accounting (I)

W5.1

Water withdrawals: for the reporting year, please complete the table below with water accounting data for all facilities included in your answer to W3.2a

| Facility reference number | Country | River basin | Facility name | Total water withdrawals (megaliters/year) at this facility | How does the total water withdrawals at this facility compare to the last reporting year? | Please explain the change if substantive |
|---------------------------|--------------------------|-----------------------|---|--|---|--|
| Facility 1 | United States of America | Mississippi River | Facilities: 1.River Bend 2.Grand Gulf – collector wells 3.Waterford 3 | 2176080.00 | About the same | |
| Facility 2 | United States of America | Other: Arkansas River | Arkansas Nuclear One – cooling water from Lake Dardanelle | 1756010.00 | Higher | Increased capacity |
| Facility 3 | United States of America | Other: Quachita River | Hydroelectric facilities: 1. Rimmel Dam 2. Carpenter Dam | 0 | About the same | |
| Facility 4 | United States of America | Hudson River | IPEC 1 and 2 | 3755985.00 | About the same | |

| Facility reference number | Fresh surface water | Brackish surface water/seawater | Rainwater | Groundwater (renewable) | Groundwater (non-renewable) | Produced/process water | Municipal water | Wastewater from another organization | Comment |
|---------------------------|---------------------|---------------------------------|-----------|-------------------------|-----------------------------|------------------------|-----------------|--------------------------------------|---------|
| Facility 6 | 10200.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

W5.2

Water discharge: for the reporting year, please complete the table below with water accounting data for all facilities included in your answer to W3.2a

| Facility reference number | Total water discharged (megaliters/year) at this facility | How does the total water discharged at this facility compare to the last reporting year? | Please explain the change if substantive |
|---------------------------|---|--|--|
| Facility 1 | 2114865.00 | About the same | |
| Facility 2 | 1734091.00 | Higher | |
| Facility 3 | 0 | About the same | |
| Facility 4 | 3729773.00 | Lower | |
| Facility 5 | 651633.00 | Much lower | |
| Facility 6 | 8553.00 | Much lower | |

W5.2a

Water discharge: for the reporting year, please provide water discharge data, in megaliters per year, by destination for all facilities reported in W5.2

| Facility reference number | Fresh surface water | Municipal Treatment Plant | Seawater | Groundwater | Comment |
|---------------------------|---------------------|---------------------------|----------|-------------|---------|
| Facility 1 | 21114865.00 | 0 | 0 | 0 | |
| Facility 2 | 1734091.00 | | | | |
| Facility 3 | 0 | | | | |
| Facility 4 | | 3729773.00 | | | |
| Facility 5 | 651633.00 | | | | |
| Facility 6 | 8553.00 | | | | |

W5.3

Water consumption: for the reporting year, please provide water consumption data for all facilities reported in W3.2a

| Facility reference number | Consumption (megaliters/year) | How does this compare to the last reporting year? | Please explain the change if substantive |
|---------------------------|-------------------------------|---|--|
| Facility 1 | 61215.00 | About the same | |
| Facility 2 | 21919.00 | Higher | |
| Facility 3 | 0 | About the same | |
| Facility 4 | 26212.00 | About the same | |
| Facility 5 | 8669.00 | Lower | |
| Facility 6 | 1647.00 | About the same | |

W5.4

For all facilities reported in W3.2a what proportion of their water accounting data has been externally verified?

| Water aspect | % verification | What standard and methodology was used? |
|---|----------------|--|
| Water withdrawals- total volumes | 76-100 | Typically pump curves and run times are used to quantify this. |
| Water withdrawals- volume by sources | 76-100 | Typically pump curves and run times are used to quantify this. |
| Water discharges- total volumes | 76-100 | Standards and methodology as contained in Federal and State NPDES Permit |
| Water discharges- volume by destination | 76-100 | Standards and methodology as contained in Federal and State NPDES Permit |
| Water discharges- volume by treatment method | 76-100 | Standards and methodology as contained in Federal and State NPDES Permit |
| Water discharge quality data- quality by standard effluent parameters | 76-100 | Standards and methodology as contained in Federal and State NPDES Permit |
| Water consumption- total volume | Not verified | |

Further Information

Module: Response

Page: W6. Governance and Strategy

W6.1

Who has the highest level of direct responsibility for water within your organization and how frequently are they briefed?

| Highest level of direct responsibility for water issues | Frequency of briefings on water issues | Comment |
|---|--|---------|
| | | |

| Highest level of direct responsibility for water issues | Frequency of briefings on water issues | Comment |
|---|--|--|
| Individual/Sub-set of the Board or other committee appointed by the Board | Scheduled-quarterly | Entergy's Chairman and CEO has overarching responsibility for managing risk including water management risk, executing strategy that positions the company to prosper in a constrained economy and ensuring actions are taken to meet Entergy's environmental strategy. The CEO chairs the Board of Directors and oversees Entergy's entire corporate structure, governance and management. The Audit Committee of the Board of Directors, the Executive Vice President and Chief Administrative Officer and the Vice President, Environmental Strategy & Policy have responsibility for oversight and implementation of Entergy's position, performance and advocacy associated with any material water issues. Material water issues are typically reported quarterly and contained in Entergy's 10Q. However, issues that are more immediate or of a material nature may be reported more frequently. |

W6.2

Is water management integrated into your business strategy?

Yes

W6.2a

Please choose the option(s) below that best explain how water has positively influenced your business strategy

| Influence of water on business strategy | Please explain |
|---|---|
| Alignment of public policy positions with water | The Board of Directors in 2002 adopted Entergy's Environmental Vision Statement which details the company's commitment to operate its business in ways that preserve and protect our environment. Along with the company's aspirations, the statement |

| Influence of water on business strategy | Please explain |
|---|---|
| stewardship goals | guides business policies and decisions. The statement establishes several commitments in the areas of sustainable development, performance excellence and environmental advocacy. This influence on water can impact Entergy's business by providing consistency of expected outcomes among key stakeholders. The outcome of this influence on Entergy's business is the ability to leverage stakeholder resources toward common goals that are supportive of business and the public. |
| Establishment of sustainability goals | Entergy developed a comprehensive environmental strategy in 2011 that addresses stakeholder concerns, potential new regulatory requirements, environmental resource limitations and financial considerations. Entergy's Environment 2020 strategy focuses on continuously reducing Entergy's environmental footprint and adapting to future resource constraints. This influence on water can impact Entergy's business by ensuring accountability toward a positive outcome as we move towards these goals. The outcome of this influence on Entergy's business has been the ability to set goals that employees can work toward via more effective business practices and innovation. |
| Introduction of water management KPIs | Water metrics are being expanded to include more breakdowns of water source/usage information to facilitate enhanced reporting, both internal and external. Specifically, we are seeking to collect additional details from the business functions regarding the water source (surface, ground, or municipal), water type (fresh, brackish, or saline), and water use (cooling, process, or sanitary). This influence on water can impact Entergy's business by breaking down water management into discreet metrics to assess and report on across the Entergy system so actions can be taken as needed. The outcome of this influence on Entergy's business is the engagement of all employees to better understand how their specific program or process impacts Entergy's overall sustainability goals and the company's Water Management Standard. |

W6.2b

Please choose the option(s) below that best explains how water has negatively influenced your business strategy

| Influence of water on business strategy | Please explain |
|---|---|
| Other: Water stressed areas | Entergy's Lewis Creek plant is located in a water-restricted area. This plant represented approximately 2% of Entergy's overall generation and is the only plant that is currently in an area that is restricting water use. A coordinated effort to reduce groundwater consumption by 30% by 2016 was put into place in 2010. Entergy's Lewis Creek staff participates in integrated watershed management with the Lone Star Groundwater Conservation District by working with the Groundwater Reduction Plan. |

| Influence of water on business strategy | Please explain |
|---|---|
| Other: Watershed Management | Impacts of water withdrawal and discharge may impact aquatic species. Entergy has developed extensive databases regarding the aquatic resources from which its facilities draw cooling or service water. Extensive information has been gathered, in particular, regarding areas of the lower Hudson River, the Connecticut River, Cape Cod, Lake Ontario, and the Mississippi River near Entergy facilities. |
| Other: Flooding & storm surge | Economic losses to Entergy's customer base within the Gulf Coast region and Entergy's generation, transmission and distribution assets have resulted from flooding and storm surge after hurricanes. |

W6.2c

Please choose the option that best explains why your organization does not integrate water management into its business strategy and discuss any future plans to do so

| Primary reason | Please explain |
|----------------|----------------|
| | |

W6.3

Does your organization have a water policy that sets out clear goals and guidelines for action?

Yes

W6.3a

Please select the content that best describes your water policy (tick all that apply)

| Content | Please explain why this content is included |
|---|--|
| Publicly available Company-wide Performance standards for direct operations Performance standards for supplier, procurement and contracting best practice Commitment to customer education Incorporated within group environmental, sustainability or EHS policy | Entergy's Environmental Management Policy, Environmental Management System Procedure, and Water Management Standard apply to all operations of the company. The purpose of this document is to provide clear direction to all employees regarding both the processes and expectations for ensuring water management excellence. The policy, procedures and standard also ensure consistency across the Entergy system. Entergy's environmental vision and environmental policy and management system are publicly available on the company's website. http://www.entergy.com/environment/ . Entergy requires employees, agents and contractors to comply with applicable environmental laws and regulations. Entergy's EHS policy states that the company pledges to: Engage key stakeholders to anticipate emerging environmental issues, respond to legitimate concerns, and advocate development of sound corporate policy. |

W6.4

How does your organization's water-related capital expenditure (CAPEX) and operating expenditure (OPEX) during the most recent reporting period compare to the previous reporting period?

| Water CAPEX (+/- % change) | Water OPEX (+/- % change) | Motivation for these changes |
|----------------------------|---------------------------|---|
| 0 | 0 | No substantial changes from the previous reporting period in capital spending or operational expenditures related to water. |

Further Information

W7.1

Was your organization subject to any penalties, fines and/or enforcement orders for breaches of abstraction licenses, discharge consents or other water and wastewater related regulations in the reporting year?

No

W7.1a

Please describe the penalties, fines and/or enforcement orders for breaches of abstraction licenses, discharge consents or other water and wastewater related regulations and your plans for resolving them

| Facility name | Incident | Incident description | Frequency of occurrence in reporting year | Financial impact | Currency | Incident resolution |
|---------------|----------|----------------------|---|------------------|----------|---------------------|
|---------------|----------|----------------------|---|------------------|----------|---------------------|

W7.1b

What proportion of your total facilities/operations are associated with the incidents listed in W7.1a

W7.1c

Please indicate the total financial impacts of all incidents reported in W7.1a as a proportion of total operating expenditure (OPEX) for the reporting year. Please also provide a comparison of this proportion compared to the previous reporting year

| | |
|---------------------|-------------------------|
| Impact as % of OPEX | Comparison to last year |
|---------------------|-------------------------|

Further Information

Page: W8. Targets and Initiatives

W8.1

Do you have any company wide targets (quantitative) or goals (qualitative) related to water?

Yes, goals only

W8.1a

Please complete the following table with information on company wide quantitative targets (ongoing or reached completion during the reporting period) and an indication of progress made

| Category of target | Motivation | Description of target | Quantitative unit of measurement | Base-line year | Target year | Proportion of target achieved, % value |
|--------------------|------------|-----------------------|----------------------------------|----------------|-------------|--|
|--------------------|------------|-----------------------|----------------------------------|----------------|-------------|--|

W8.1b

Please describe any company wide qualitative goals (ongoing or reached completion during the reporting period) and your progress in achieving these

| Goal | Motivation | Description of goal | Progress |
|-----------------------------|--|---|--|
| Other: Fleet Transformation | Other: Cost Savings and increased production | Replace open cycle legacy natural gas steam electric generating capacity with closed cycle cooling combined cycle gas turbines (CCGT). The water use intensity of the Legacy Gas units is 166 M3/MWh while the water use intensity of the CCGTs is 8 M3/MWh | Entergy's Fleet Portfolio Transformation Strategy is in progress; the company has made significant progress and has added 3,928 MW of closed cycle cooling CCGT capacity since 2005. During 2014, the Ninemile Point Unit 6 facility came on-line - this is a self-built 560 MW CCGT plant. An additional CCGT acquisition was announced; Union Power Station is a 1,980 MW plant that employs closed cycle cooling. Entergy expects to close the acquisition of this plant in late-2015. Assuming 100% capacity factor, this transformation strategy would result in a withdrawal reduction of more than 800 billion gallons of water per year. |
| Other: Nuclear Uprates | Other: Increased production | Invest in Nuclear Unit uprates that increase generating capacity without requiring an incremental increase in water withdrawal requirements | Grand Gulf uprate is substantially completed. During 2012, Entergy completed a 178 MW capacity uprate at Grand Gulf Nuclear Station bringing the total uprates since 2001 to 700 MW of new capacity that requires little or no incremental added cooling water. Assuming a 100% capacity factor, this strategy would result in a withdrawal reduction of large quantities of water per year. |
| Other: Energy Efficiency | Sales of new products/services | The Entergy Utility companies are committed to pursuing cost effective DSM and have identified 990 MW of peak demand reduction that can be achieved through 2031 as a part of its Integrated Resources Plans. | Significant progress has been made. Across its six regulated utilities that operate in four states, Entergy has invested a total of \$252.8 million from 2002 to 2014 to deliver approximately 350 MW of load reduction and more than 982,000 megawatt hours (MWh) of annual energy savings resulting in a savings of nearly 23 billion gallons of water per year. Currently, more than 30 energy efficiency and DSM programs are underway across four states. |

W8.1c

Please explain why you do not have any water-related targets or goals and discuss any plans to develop these in the future

Further Information

Module: Linkages/Tradeoff

Page: W9. Managing trade-offs between water and other environmental issues

W9.1

Has your organization identified any linkages or trade-offs between water and other environmental issues in its value chain?

Yes

W9.1a

Please describe the linkages or trade-offs and the related management policy or action

| Environmental issues | Linkage or trade-off | Policy or action |
|--|----------------------|--|
| Cooling water intake structure regulation at nuclear units | Linkage | 1) Description: Extreme costs/measures required for EPA regulatory compliance would cause closure of existing nuclear units, which would be replaced by fossil-fueled units, thus damaging air quality and climate action plans. 2) Action Taken: Entergy advocates with agencies and policy-makers and litigates where necessary for reasonable CWIS regulation and permits and for the support of continued operation of nuclear units. 3) Policy for managing linkage: Ensuring unit reliability that is safe, environmentally compliant and affordable expectations of state and federal permits and regulator as well as the public's expectations. |

Further Information

Module: Sign Off

Page: Sign Off

W10.1

Please provide the following information for the person that has signed off (approved) your CDP water response

| Name | Job title | Corresponding job category |
|--------------|---|------------------------------------|
| Chuck Barlow | Vice President, Environmental Strategy & Policy | Environment/Sustainability manager |

W10.2

Addressing water risks effectively, in many instances, requires collective action. CDP would like to support you in finding potential partners that are also working to tackle water challenges in the river basins you report against. Please select if your organization would like CDP to transfer your publicly disclosed risk and impact drivers and response strategy data from questions W1.4a, W3.2b, W3.2c, W4.1a and W8.1b to the United Nations Global Compact Water Action Hub.

Yes

Further Information

[CDP 2015 Water 2015 Information Request](#)