



# MVPs Create Jobs, Benefits for States

## MISO's Multi-Value Projects portfolio, or MVPs, will create thousands of jobs. Estimates include the following:

- Creation of 17,000 - 39,800 direct (construction) jobs
- Between 28,400 and 74,000 total jobs will be created. This includes construction, supplier and other downstream opportunities.

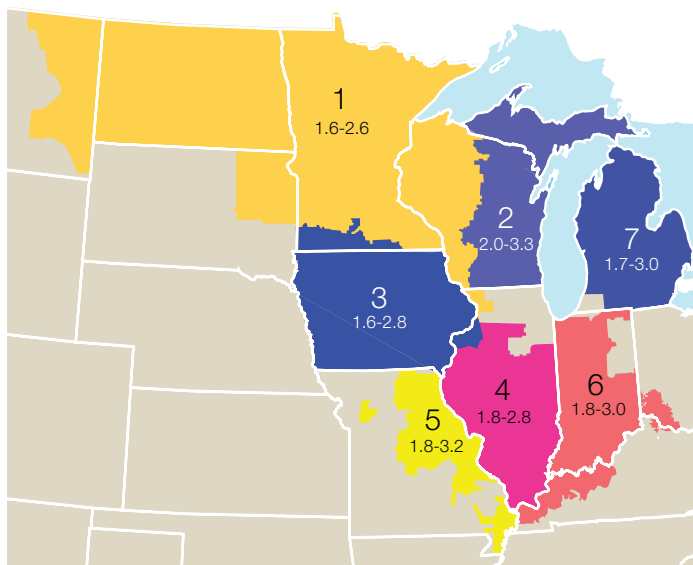
## MVPs Save States Money

As a result of MVPs, consumers will see economic benefits ranging from 1.8 to 3.0 times the costs. These benefits include:

- \$12.4 billion to \$40.9 billion from enabling low-cost generation to displace higher-cost generation
- \$28 million to \$87 million from more efficient dispatch of operating reserves
- \$111 million to \$396 million from reductions in energy wasted on transmission losses, reducing future generation investment required to serve those losses
- \$1,354 million to \$2,503 million in benefits through supporting a regional wind integration methodology
- \$1,023 million to \$5,093 million from reduced future Planning Reserve Margin Requirements, which reduces installation of future generation to meet this requirement.
- \$226 million to \$794 million in avoided costs for reliability projects that would otherwise need to be constructed.

## Did you know?

- Transmission planning ensures greater reliability throughout MISO, identifying areas of congestion and recommending transmission upgrades.
- MISO matches the appropriate cost allocation method with each project's driver and business case to ensure project costs are spread commensurate with benefits.
- Multi-Value Projects provide benefits beyond just meeting local energy and reliability needs.



**Benefit/Cost Ratio Ranges**  
Local Resource Zones

## Regional Benefits

MISO projects the 2011 MVP portfolio will realize the following benefits for the entire MISO footprint:

- Average residential customer's return on investment: \$23 annual return on an \$11 per year investment.
- Projected benefits: \$15.6 billion - \$49.3 billion\*
- Proposed capital cost: \$5.2 billion\*

## MISO Zones & Planning

The MVP portfolio will deliver reliability, public policy and economic benefits across the system. MISO's energy zones are designed to optimize wind generation placement and to minimize distance to other fuel sources such as natural gas. When connected to the overall grid by the MVP projects, the zones will enable access to low-cost energy for the entire MISO footprint.

\* 2011 present value dollars



MVPs Create Jobs, Benefits for Minnesota, Montana, North Dakota, South Dakota and Western Wisconsin

**MISO's Multi-Value Projects portfolio, or MVPs, will create thousands of jobs. Estimates include the following:**

- Creation of 4,000 - 9,500 direct (construction) jobs
- Between 6,700 and 17,700 total jobs will be created. This includes construction, supplier and other downstream opportunities.

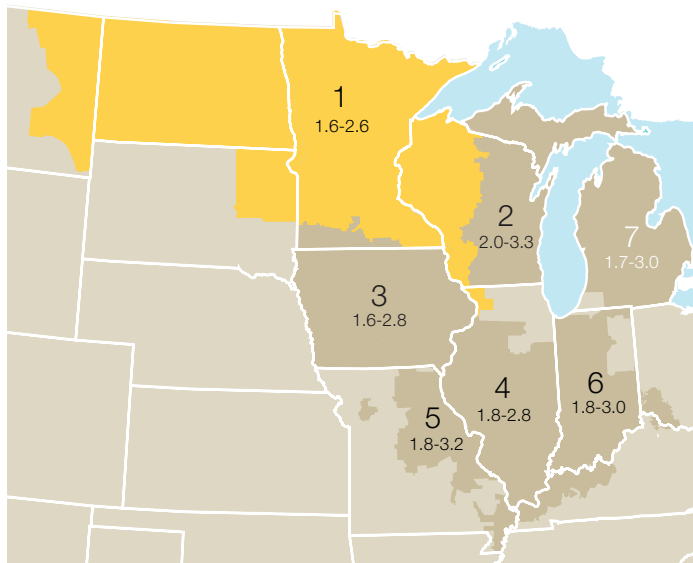
**MVPs Save States Money**

As a result of MVPs, consumers will see economic benefits ranging from 1.6 to 2.9 times the costs. These benefits include:

- \$1.7 billion to \$6.3 billion from enabling low-cost generation to displace higher-cost generation
- \$5 million to \$14 million from more efficient dispatch of operating reserves
- \$18 million to \$65 million from reductions in energy wasted on transmission losses, reducing future generation investment required to serve those losses
- \$251 million to \$464 million in benefits through supporting a regional wind integration methodology
- \$169 million to \$842 million from reduced future Planning Reserve Margin Requirements, which reduces installation of future generation to meet this requirement.
- \$81 million to \$284 million in avoided costs for reliability projects that would otherwise need to be constructed.

**Did you know?**

- **Transmission planning ensures greater reliability throughout MISO, identifying areas of congestion and recommending transmission upgrades.**
- **MISO matches the appropriate cost allocation method with each project's driver and business case to ensure project costs are spread commensurate with benefits.**
- **Multi-Value Projects provide benefits beyond just meeting local energy and reliability needs.**



**Benefit/Cost Ratio Ranges**  
Local Resource Zones

**Regional Benefits**

MISO projects the 2011 MVP portfolio will realize the following benefits for the entire MISO footprint:

- Average residential customer's return on investment: \$23 annual return on an \$11 per year investment.
- Projected benefits: \$15.6 billion - \$49.3 billion\*
- Proposed capital cost: \$5.2 billion\*
- Cost/Benefit Ratio: 1.8 to 3.0 times the cost
- Annual construction jobs created: 17,000 to 39,800
- Total annual jobs created: 28,400 to 74,000

**MISO Zones & Planning**

The MVP portfolio will deliver reliability, public policy and economic benefits across the system. MISO's energy zones are designed to optimize wind generation placement and to minimize distance to other fuel sources such as natural gas. When connected to the overall grid by the MVP projects, the zones will enable access to low-cost energy for the entire MISO footprint.

\* 2011 present value dollars



# MVPs Create Jobs, Benefits for Eastern Wisconsin and Upper Michigan

**MISO's Multi-Value Projects portfolio, or MVPs, will create thousands of jobs for Eastern Wisconsin and Upper Michigan. Estimates include the following:**

- Creation of 1,900 - 4,500 direct (construction) jobs
- Between 3,200 and 8,400 total jobs will be created. This includes construction, supplier and other downstream opportunities.

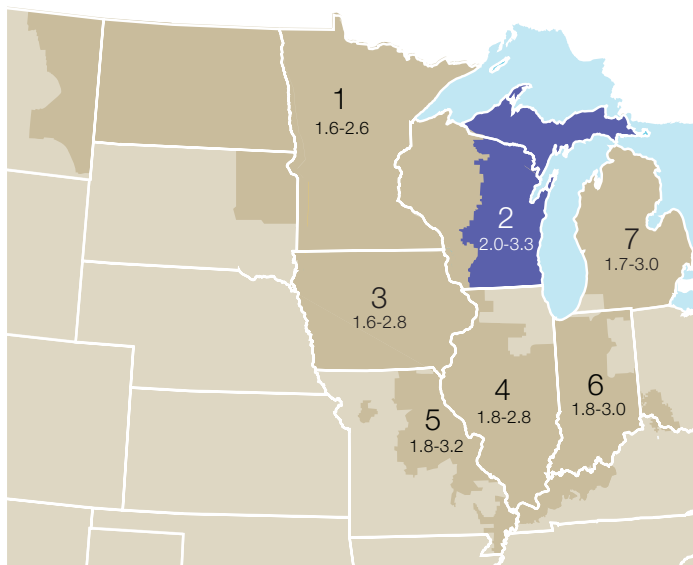
## MVPs Save Wisconsin and Michigan Money

As a result of MVPs, consumers will see economic benefits ranging from 2.0 to 3.3 times the costs. These benefits include:

- \$1.7 billion to \$5.4 billion from enabling low-cost generation to displace higher-cost generation
- \$3 million to \$11 million from more efficient dispatch of operating reserves
- \$13 million to \$48 million from reductions in energy wasted on transmission losses, reducing future generation investment required to serve those losses
- \$219 million to \$405 million in benefits through supporting a regional wind integration methodology
- \$124 million to \$618 million from reduced future Planning Reserve Margin Requirements, which reduces installation of future generation to meet this requirement.
- \$43 million to \$152 million in avoided costs for reliability projects that would otherwise need to be constructed.

## Did you know?

- **Transmission planning ensures greater reliability throughout MISO, identifying areas of congestion and recommending transmission upgrades.**
- **MISO matches the appropriate cost allocation method with each project's driver and business case to ensure project costs are spread commensurate with benefits.**
- **Multi-Value Projects provide benefits beyond just meeting local energy and reliability needs.**



**Benefit/Cost Ratio Ranges**  
Local Resource Zones

## Regional Benefits

MISO projects the 2011 MVP portfolio will realize the following benefits for the entire MISO footprint:

- Average residential customer's return on investment: \$23 annual return on an \$11 per year investment.
- Projected benefits: \$15.6 billion - \$49.3 billion\*
- Proposed capital cost: \$5.2 billion\*
- Cost/Benefit Ratio: 1.8 to 3.0 times the cost
- Annual construction jobs created: 17,000 to 39,800
- Total annual jobs created: 28,400 to 74,000

## MISO Zones & Planning

The MVP portfolio will deliver reliability, public policy and economic benefits across the system. MISO's energy zones are designed to optimize wind generation placement and to minimize distance to other fuel sources such as natural gas. When connected to the overall grid by the MVP projects, the zones will enable access to low-cost energy for the entire MISO footprint.

\* 2011 present value dollars



# MVPs Create Jobs, Benefits for Iowa

## MISO's Multi-Value Projects portfolio, or MVPs, will create thousands of jobs for Iowa. Estimates include the following:

- Creation of 3,700 - 8,700 direct (construction) jobs
- Between 6,100 and 16,000 total jobs will be created. This includes construction, supplier and other downstream opportunities.

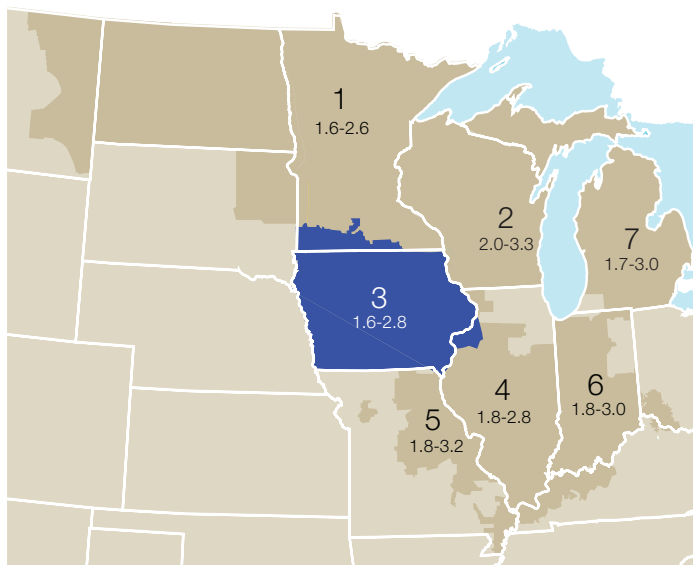
## MVPs Save Iowa Money

As a result of MVPs, Iowa consumers will see economic benefits ranging from 1.6 to 2.8 times the costs. These benefits include:

- \$0.9 billion to \$3.3 billion from enabling low-cost generation to displace higher-cost generation
- \$2 million to \$8 million from more efficient dispatch of operating reserves
- \$10 million to \$34 million from reductions in energy wasted on transmission losses, reducing future generation investment required to serve those losses
- \$124 million to \$230 million in benefits through supporting a regional wind integration methodology
- \$89 million to \$442 million from reduced future Planning Reserve Margin Requirements, which reduces installation of future generation to meet this requirement.
- \$10 million to \$36 million in avoided costs for reliability projects that would otherwise need to be constructed.

## Did you know?

- **Transmission planning ensures greater reliability throughout MISO, identifying areas of congestion and recommending transmission upgrades.**
- **MISO matches the appropriate cost allocation method with each project's driver and business case to ensure project costs are spread commensurate with benefits.**
- **Multi-Value Projects provide benefits beyond just meeting local energy and reliability needs.**



**Benefit/Cost Ratio Ranges**  
Local Resource Zones

## Regional Benefits

MISO projects the 2011 MVP portfolio will realize the following benefits for the entire MISO footprint:

- Average residential customer's return on investment: \$23 annual return on an \$11 per year investment.
- Projected benefits: \$15.6 billion - \$49.3 billion\*
- Proposed capital cost: \$5.2 billion\*
- Cost/Benefit Ratio: 1.8 to 3.0 times the cost
- Annual construction jobs created: 17,000 to 39,800
- Total annual jobs created: 28,400 to 74,000

## MISO Zones & Planning

The MVP portfolio will deliver reliability, public policy and economic benefits across the system. MISO's energy zones are designed to optimize wind generation placement and to minimize distance to other fuel sources such as natural gas. When connected to the overall grid by the MVP projects, the zones will enable access to low-cost energy for the entire MISO footprint.

\* 2011 present value dollars



# MVPs Create Jobs, Benefits for Illinois

## MISO's Multi-Value Projects portfolio, or MVPs, will create thousands of jobs for Illinois. Estimates include the following:

- Creation of 2,300 - 5,500 direct (construction) jobs
- Between 3,900 and 10,200 total jobs will be created. This includes construction, supplier and other downstream opportunities.

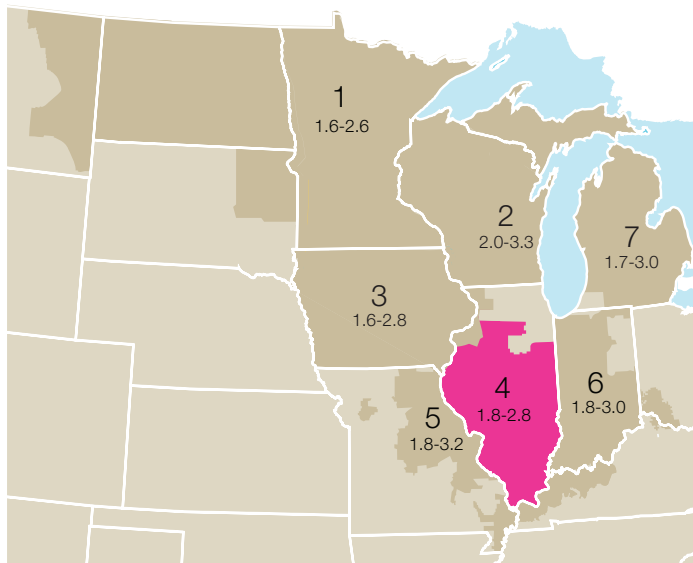
## MVPs Save Illinois Money

As a result of MVPs, Illinois consumers will see economic benefits ranging from 1.8 to 2.8 times the costs. These benefits include:

- \$1 billion to \$3 billion from enabling low-cost generation to displace higher-cost generation
- \$3 million to \$8 million from more efficient dispatch of operating reserves
- \$10 million to \$36 million from reductions in energy wasted on transmission losses, reducing future generation investment required to serve those losses
- \$301 million to \$555 million in benefits through supporting a regional wind integration methodology
- \$92 million to \$457 million from reduced future Planning Reserve Margin Requirements, which reduces installation of future generation to meet this requirement.
- \$37 million to \$129 million in avoided costs for reliability projects that would otherwise need to be constructed.

## Did you know?

- **Transmission planning ensures greater reliability throughout MISO, identifying areas of congestion and recommending transmission upgrades.**
- **MISO matches the appropriate cost allocation method with each project's driver and business case to ensure project costs are spread commensurate with benefits.**
- **Multi-Value Projects provide benefits beyond just meeting local energy and reliability needs.**



**Benefit/Cost Ratio Ranges**  
Local Resource Zones

## Regional Benefits

MISO projects the 2011 MVP portfolio will realize the following benefits for the entire MISO footprint:

- Average residential customer's return on investment: \$23 annual return on an \$11 per year investment.
- Projected benefits: \$15.6 billion - \$49.3 billion\*
- Proposed capital cost: \$5.2 billion\*
- Cost/Benefit Ratio: 1.8 to 3.0 times the cost
- Annual construction jobs created: 17,000 to 39,800
- Total annual jobs created: 28,400 to 74,000

## MISO Zones & Planning

The MVP portfolio will deliver reliability, public policy and economic benefits across the system. MISO's energy zones are designed to optimize wind generation placement and to minimize distance to other fuel sources such as natural gas. When connected to the overall grid by the MVP projects, the zones will enable access to low-cost energy for the entire MISO footprint.

\* 2011 present value dollars



# MVPs Create Jobs Benefits for Missouri

## MISO's Multi-Value Projects portfolio, or MVPs, will create thousands of jobs for Missouri. Estimates include the following:

- Creation of 1,600 - 3,800 direct (construction) jobs
- Between 2,700 and 7,000 total jobs will be created. This includes construction, supplier and other downstream opportunities.

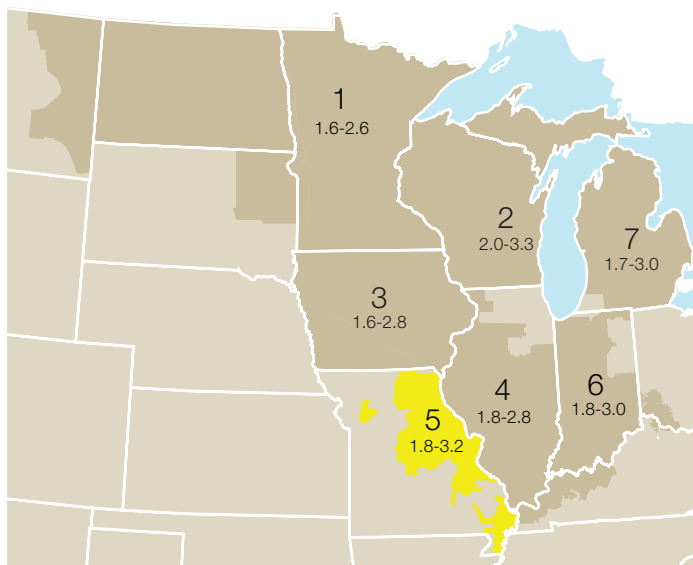
## MVPs Save Missouri Money

As a result of MVPs, Missouri consumers will see economic benefits ranging from 1.8 to 3.2 times the costs. These benefits include:

- \$1.2 billion to \$4.4 billion from enabling low-cost generation to displace higher-cost generation
- \$3 million to \$9 million from more efficient dispatch of operating reserves
- \$11 million to \$39 million from reductions in energy wasted on transmission losses, reducing future generation investment required to serve those losses
- \$141 million to \$260 million in benefits through supporting a regional wind integration methodology
- \$101 million to \$501 million from reduced future Planning Reserve Margin Requirements, which reduces installation of future generation to meet this requirement.
- \$6 million to \$23 million in avoided costs for reliability projects that would otherwise need to be constructed.

## Did you know?

- **Transmission planning ensures greater reliability throughout MISO, identifying areas of congestion and recommending transmission upgrades.**
- **MISO matches the appropriate cost allocation method with each project's driver and business case to ensure project costs are spread commensurate with benefits.**
- **Multi-Value Projects provide benefits beyond just meeting local energy and reliability needs.**



**Benefit/Cost Ratio Ranges**  
Local Resource Zones

## Regional Benefits

MISO projects the 2011 MVP portfolio will realize the following benefits for the entire MISO footprint:

- Average residential customer's return on investment: \$23 annual return on an \$11 per year investment.
- Projected benefits: \$15.6 billion - \$49.3 billion\*
- Proposed capital cost: \$5.2 billion\*
- Cost/Benefit Ratio: 1.8 to 3.0 times the cost
- Annual construction jobs created: 17,000 to 39,800
- Total annual jobs created: 28,400 to 74,000

## MISO Zones & Planning

The MVP portfolio will deliver reliability, public policy and economic benefits across the system. MISO's energy zones are designed to optimize wind generation placement and to minimize distance to other fuel sources such as natural gas. When connected to the overall grid by the MVP projects, the zones will enable access to low-cost energy for the entire MISO footprint.

\* 2011 present value dollars



# MVPs Create Jobs, Benefits for Indiana, Kentucky and Ohio

**MISO's Multi-Value Projects portfolio, or MVPs, will create thousands of jobs for Indiana, Kentucky and Ohio. Estimates include the following:**

- Creation of 1,700 - 4,100 direct (construction) jobs
- Between 2,900 and 7,600 total jobs will be created. This includes construction, supplier and other downstream opportunities.

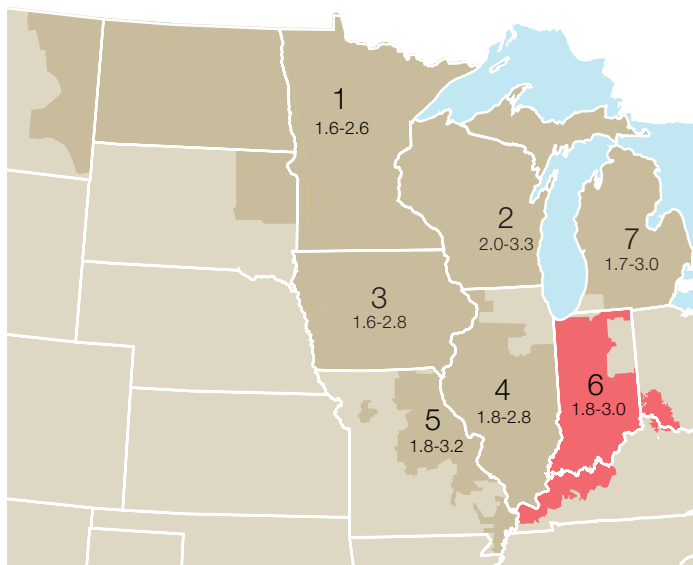
## MVPs Save Indiana, Kentucky and Ohio Money

As a result of MVPs, consumers will see economic benefits ranging from 1.8 to 3.0 times the costs. These benefits include:

- \$3.1 billion to \$9.8 billion from enabling low-cost generation to displace higher-cost generation
- \$7 million to \$21 million from more efficient dispatch of operating reserves
- \$26 million to \$93 million from reductions in energy wasted on transmission losses, reducing future generation investment required to serve those losses
- \$319 million to \$589 million in benefits through supporting a regional wind integration methodology
- \$241 million to \$1200 million from reduced future Planning Reserve Margin Requirements, which reduces installation of future generation to meet this requirement.
- \$42 million to \$147 million in avoided costs for reliability projects that would otherwise need to be constructed.

## Did you know?

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\* 2011 present value dollars



# MVPs Create Jobs, Benefits for Michigan

## MISO's Multi-Value Projects portfolio, or MVPs, will create thousands of jobs for Michigan. Estimates include the following:

- Creation of 1,600 - 3,700 construction-related jobs
- Creation of 2,600 - 7,000 total jobs, including construction, supplier and other downstream opportunities

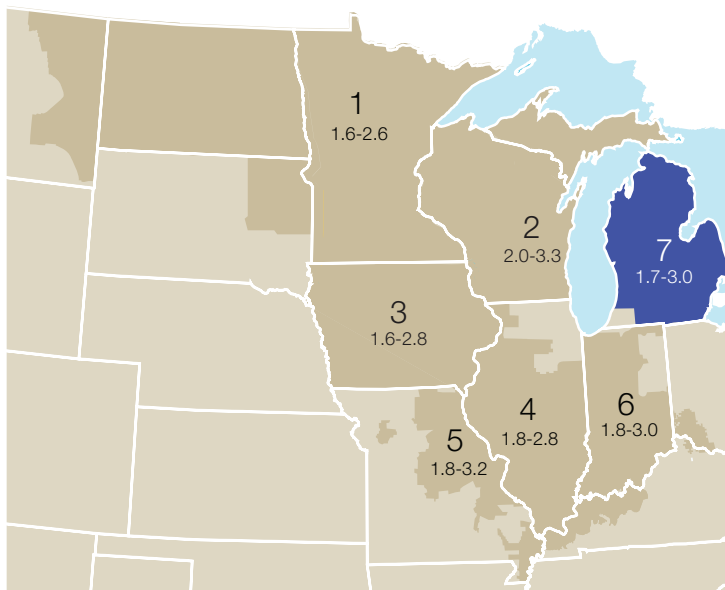
## MVPs Save Michigan Money

As a result of MVPs, Michigan consumers will see economic benefits ranging from 1.7 to 3 times the costs. These benefits include:\*

- \$2.8 billion to \$8.8 billion from enabling low-cost generation to displace higher-cost generation
- \$6 million to \$18 million from more efficient dispatch of operating reserves
- \$23 million to \$80 million from reductions in energy wasted on transmission losses, reducing future generation investment required to serve those losses
- \$208 million to \$1,035 million from reduced future Planning Reserve Margin Requirements, which reduces installation of future generation to meet this requirement.
- \$6 million to \$23 million in avoided costs for reliability projects that would otherwise need to be constructed.

## Did you know?

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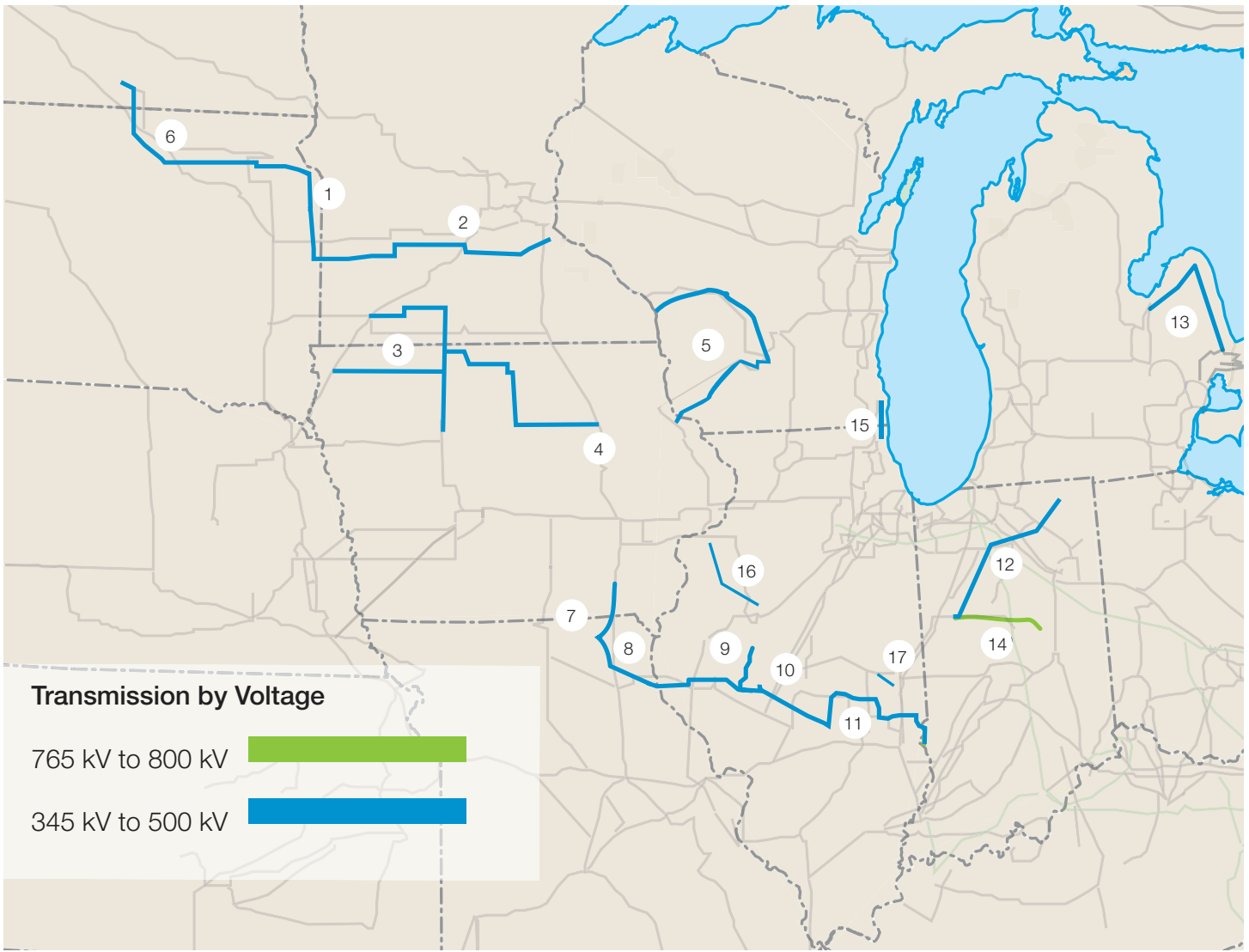
- Average residential customer's return on investment: \$23 annual return on an \$11 per year investment.
- Projected benefits: \$15.6 billion - \$49.3 billion\*
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### Proposed Multi-Value Projects

Project Name	State(s)	Transmission Owner	Project Name	State(s)	Transmission Owner
1. Big Stone – Brookings	SD	Otter Tail Power/ Xcel Energy	9. Palmyra-Quincy-Meredosia- Ipava & Meredosia-Pawnee	MO/IL	Ameren
2. Brookings – SE Twin Cities	SD/MN	Xcel Energy/ Great River Energy	10. New Pawnee-Pana	IL	Ameren
3. Lakefield Jct.-Winnebago – Winco – Burt area & Sheldon – Burt area – Webster	MN/IA	MidAmerican Energy Co./ ITC Midwest	11. Pana-Mt. Zion-Kansas- Sugar Creek	IL	Ameren/ Duke Energy
4. Winco – Lime Creek – Emery -Blackhawk – Hazleton	IA	MidAmerican Energy Co./ ITC Midwest	12. Reynolds-Burr Oak-Hiple	IN	NIPSCO
5. N. LaCrosse-N. Madison- Cardinal & Dubuque Co.- Spring Green-Cardinal	WI	American Transmission Co./ Xcel Energy/ ITC Midwest	13. Michigan Thumb Loop Expansion	MI	ITC
6. Ellendale – Big Stone	ND/SD	Otter Tail Power/ Montana-Dakota Utilities	14. Reynolds-Greentown	IN	Duke Energy/ NIPSCO
7. Adair – Ottumwa	IA/MO	Ameren/ ITC Midwest/ MidAmerican Energy Co.	15. Pleasant Prairie-Zion Energy Center	WI/IL	American Transmission Co.
8. West Adair – Palmyra Tap	MO	Ameren	16. Fargo-Oak Grove	IL	Ameren/ MidAmerican Energy Co.
			17. Sidney-Rising	IL	Ameren