

List of Approved Sensitivities as of 2.11.11

| Run No. | Future | Sens. | Description |
|---|---------------|--------------|--|
| Future 1: Business As Usual Base Case | | | |
| 1 | 1 | 1 | Revised transfer capability -- overload charges at 75% of avg shadow prices |
| 2 | 1 | 2 | Transmission Sensitivity #1.2 -- Overload charges at 25% of avg shadow prices |
| 3 | 1 | 3 | High load growth |
| 4 | 1 | 4 | Low load growth |
| 5 | 1 | 5 | High gas prices |
| 6 | 1 | 6 | Increase state EE/DR levels and RPS reqs by 5 percentage points each |
| 7 | 1 | 7 | Higher PHEV levels |
| 8 | 1 | 8 | Decreased renewable resources capital costs |
| 9 | 1 | 9 | Environmental Regulatory Curtailment (ERC) #1 - Delay implementation of new non-carbon EPA regs beyond period of study |
| 10 | 1 | 10 | ERC #2: Reduce existing state RPS by 5% in absolute terms within the timeframe specified by each state's RPS requirement. Reduce EE/DR requirements (in states that have them) by 5 percentage points each by end of study period. |
| 11 | 1 | 11 | ERC #3: Less-aggressive implementation of upcoming EPA regs (at ~50% of originally intended impact) by delaying implementation |
| 12 | 1 | 12 | ERC #4: Even less aggressive implementation of upcoming EPA regulations (at ~25% of originally intended impact) by further delaying implementation |
| 13 | 1 | 13 | FM #1: No policies/regulations continued past current expiration (PTC/ITC, etc.); RPS requirements removed. |
| 14 | 1 | 14 | FM #2: FM #1 PLUS all fuel subsidies removed |
| 15 | 1 | 15 | FM #3: FM #1 PLUS high load growth. |
| Future 2: Federal Carbon Constraint -- National Implementation | | | |
| 16 | 2 | 1 | Revised transfer capability |
| 17 | 2 | 2 | Transmission sensitivity #2.2 (placeholder until methodology determined) |
| 18 | 2 | 3 | High load growth |
| 19 | 2 | 4 | Low load growth |
| 20 | 2 | 5 | High gas prices |
| 21 | 2 | 6 | Low gas prices* |
| 22 | 2 | 7 | Higher carbon costs OR higher carbon reduction targets (depending on how modeled) |
| 23 | 2 | 8 | Lower carbon costs OR reduced carbon reduction targets (depending on how modeled) |
| Future 3: Federal Carbon Constraint -- State/Regional Implementation | | | |
| 24 | 3 | 1 | Revised transfer capability |
| 25 | 3 | 2 | High load growth |

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|--|---|----|--|
| 26 | 3 | 3 | High gas prices |
| 27 | 3 | 4 | Low gas prices* |
| 28 | 3 | 5 | High carbon costs OR higher carbon reduction targets (depending on how modeled) |
| 29 | 3 | 6 | Lower carbon costs OR reduced carbon reduction targets (depending on how modeled) |
| 30 | 3 | 7 | Limited new/upgraded nuclear |
| 31 | 3 | 8 | Increased imported Canadian hydro |
| Future 4: Aggressive EE/DR/DG/Smart Grid | | | |
| 32 | 4 | 1 | Revised transfer capability |
| 33 | 4 | 2 | High load growth |
| 34 | 4 | 3 | High gas prices |
| 35 | 4 | 4 | Mid-range costs for DR, EE, smart grid, storage/DG-Lower DR/EE performance (depending on modeling) |
| 36 | 4 | 5 | Higher PHEV levels |
| 37 | 4 | 6 | Higher PHEV levels with modified load shape (increasing peak) |
| 38 | 4 | 7 | Increased economic activity with change in relationship between GDP and load growth |
| 39 | 4 | 8 | Low gas prices* |
| 40 | 4 | 9 | Additional 1% mandated energy consumption reductions & comparable increase in DR |
| Future 5: National RPS -- Top-Down Implementation | | | |
| 41 | 5 | 1 | Revised transfer capability |
| 42 | 5 | 2 | Transmission sensitivity # 5.2 (placeholder until methodology determined) |
| 43 | 5 | 3 | High load growth |
| 44 | 5 | 4 | Low load growth |
| 45 | 5 | 5 | High gas prices |
| 46 | 5 | 6 | Low gas prices* |
| 47 | 5 | 7 | Low cost of renewable resources |
| 48 | 5 | 8 | High cost of renewable resources |
| 49 | 5 | 9 | Increased deployment of flexible resources (DR, storage) |
| 50 | 5 | 10 | Modified load block shapes in recognition of increased PHEV levels |
| Future 6: National RPS -- State/Regional Implementation | | | |
| 51 | 6 | 1 | Revised transfer capability |
| 52 | 6 | 2 | High load growth |
| 53 | 6 | 3 | Low load growth |
| 54 | 6 | 4 | High gas prices |
| 55 | 6 | 5 | Low gas prices* |
| 56 | 6 | 6 | Low cost of renewable resources |
| 57 | 6 | 7 | High cost of renewable resources |
| 58 | 6 | 8 | Increased deployment of flexible resources (DR, storage) |
| 59 | 6 | 9 | Increased imported Canadian hydro |
| 60 | 6 | 10 | Modified load block shapes in recognition of increased PHEV levels |
| Future 7: Nuclear Resurgence | | | |
| 61 | 7 | 1 | Revised transfer capability |
| 62 | 7 | 2 | Low load growth |

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|---|---|---|--|
| 63 | 7 | 3 | High load growth |
| 64 | 7 | 4 | Low coal prices and low gas prices |
| 65 | 7 | 5 | EPA Carbon limitations (electric sector only) |
| 66 | 7 | 6 | High uranium and disposal costs, and high capital costs, relative to base assumptions in this Future |
| 67 | 7 | 7 | Remove nuclear plants without loan guarantees (force in only those with guarantees) |
| Future 8: Combined Federal Climate and Energy Policy | | | |
| 68 | 8 | 1 | Revised transfer capability |
| 69 | 8 | 2 | Transmission sensitivity #8.2 (placeholder until methodology determined) |
| 70 | 8 | 3 | Increased economic activity with change in relationship between GDP and load growth |
| 71 | 8 | 4 | EITHER 1) Increase RPS to 40% OR 2) Lower gas prices (consensus not reached) |
| Free Sensitivities | | | |
| 72 | | | FREE SENSITIVITY |