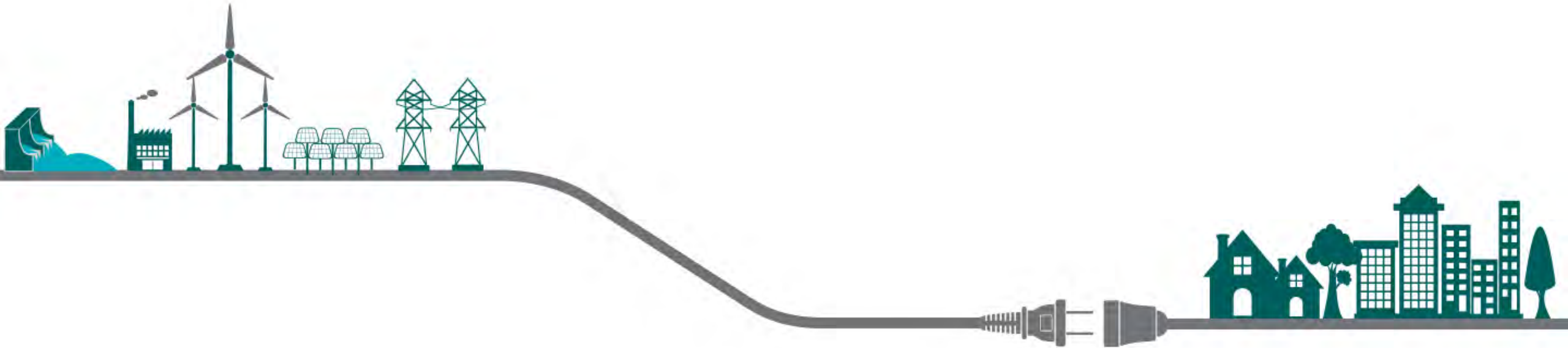


Portfolio Development Methodology



IRPAC Meeting, Tuesday, August 10
Jared Hansen, Resource Planning

Integrated Resource Plan Construction



**Optimized
Resource
Expansion**



Resource Portfolio

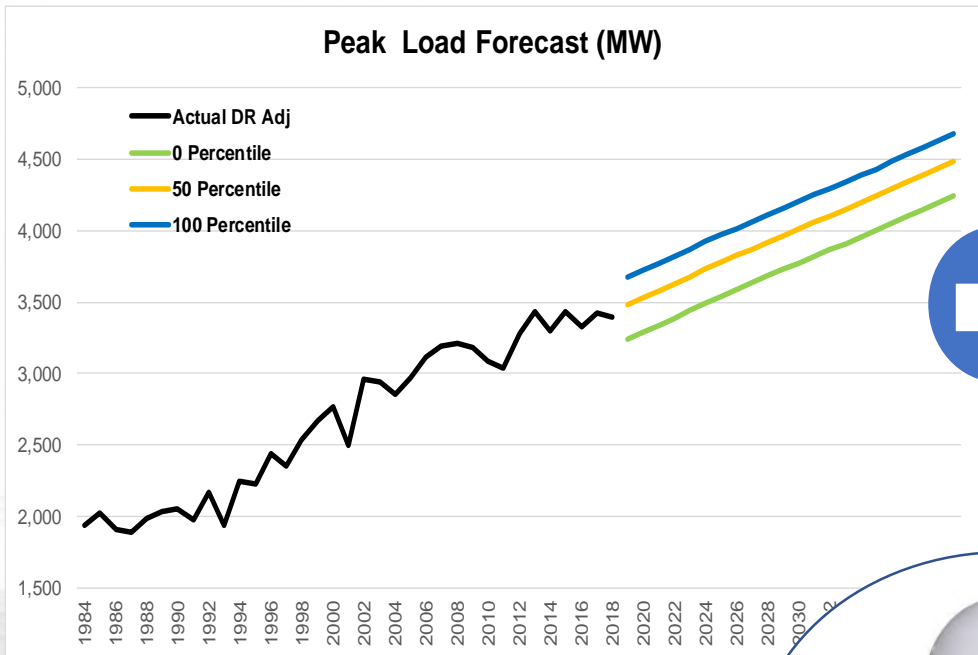


Table 8.3 Non-B2H portfolio reference numbers

Non-B2H	Zero Carbon	Planning Carbon	Generational Carbon	High Carbon
Planning Gas	1	2	3	4
EIA Reference Gas	5	6	7	8
EIA LOG Gas	9	10	11	12

Table 8.4 B2H portfolio reference numbers

B2H	Zero Carbon	Planning Carbon	Generational Carbon	High Carbon
Planning Gas	13	14	15	16
EIA Reference Gas	17	18	19	20
EIA LOG Gas	21	22	23	24

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Non-B2H	Zero Carbon	Planning Carbon	Generational Carbon	High Carbon
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2021 IRP Portfolio Development Example

Base Scenario
with B2H

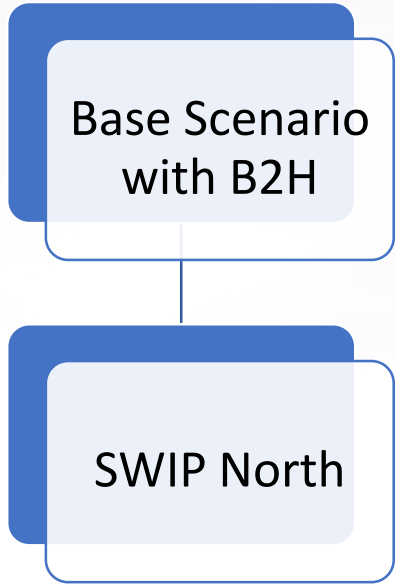


Color Key


 Long-Term Capacity Expansion (LTCE) Run


 Production run sensitivity

2021 IRP Portfolio Development Example

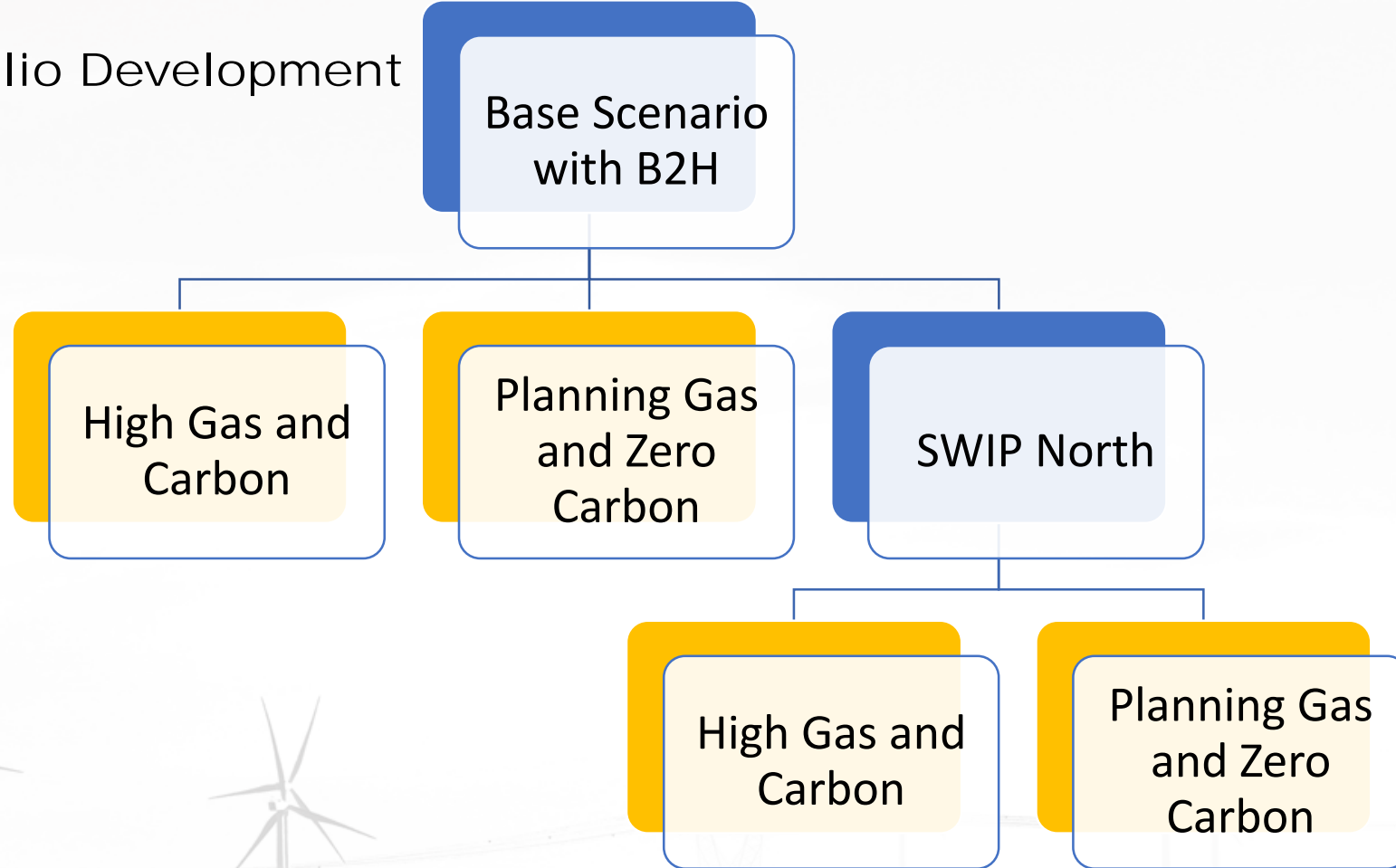


Color Key



 Long-Term Capacity Expansion (LTCE) Run

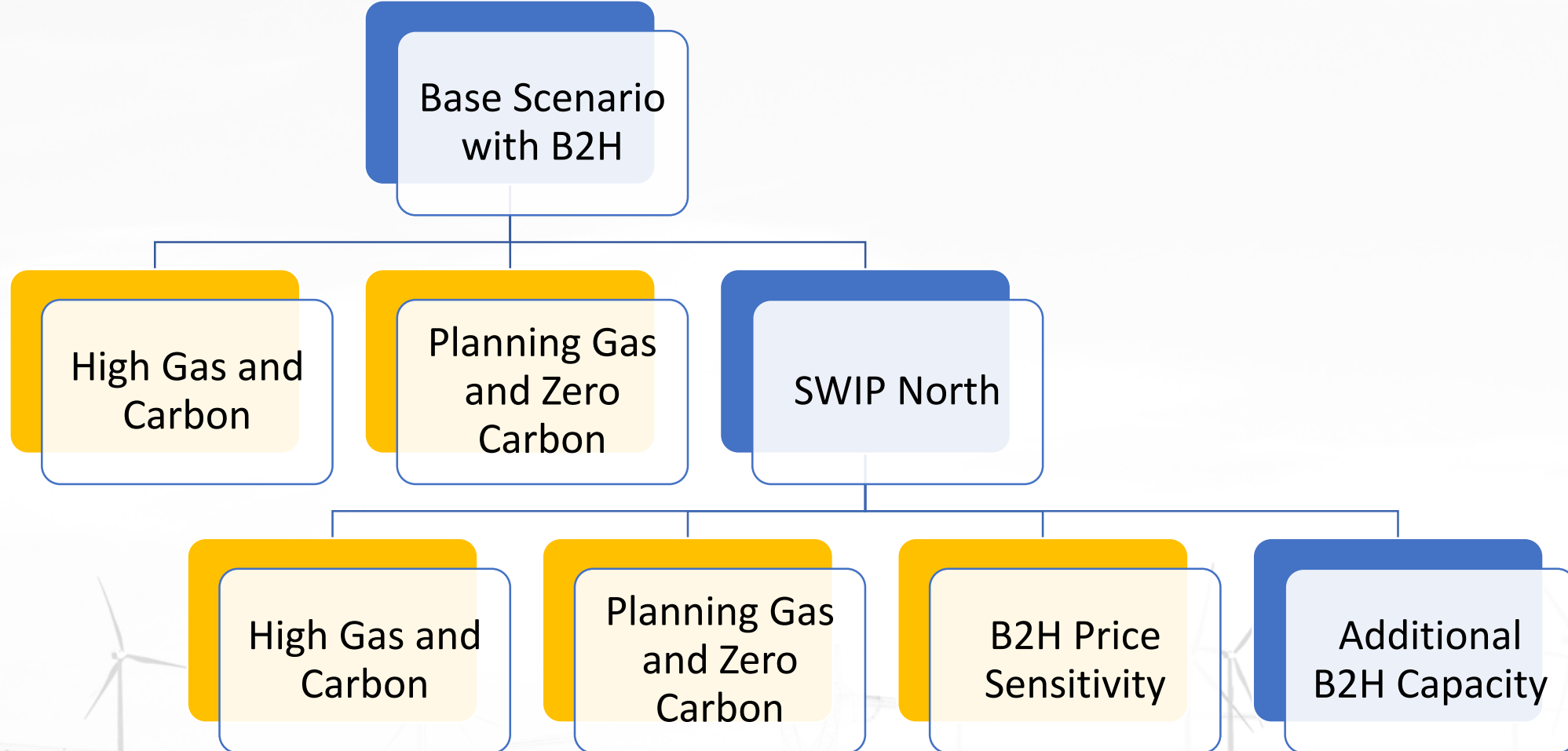
 Production run sensitivity

2021 IRP Portfolio Development Example





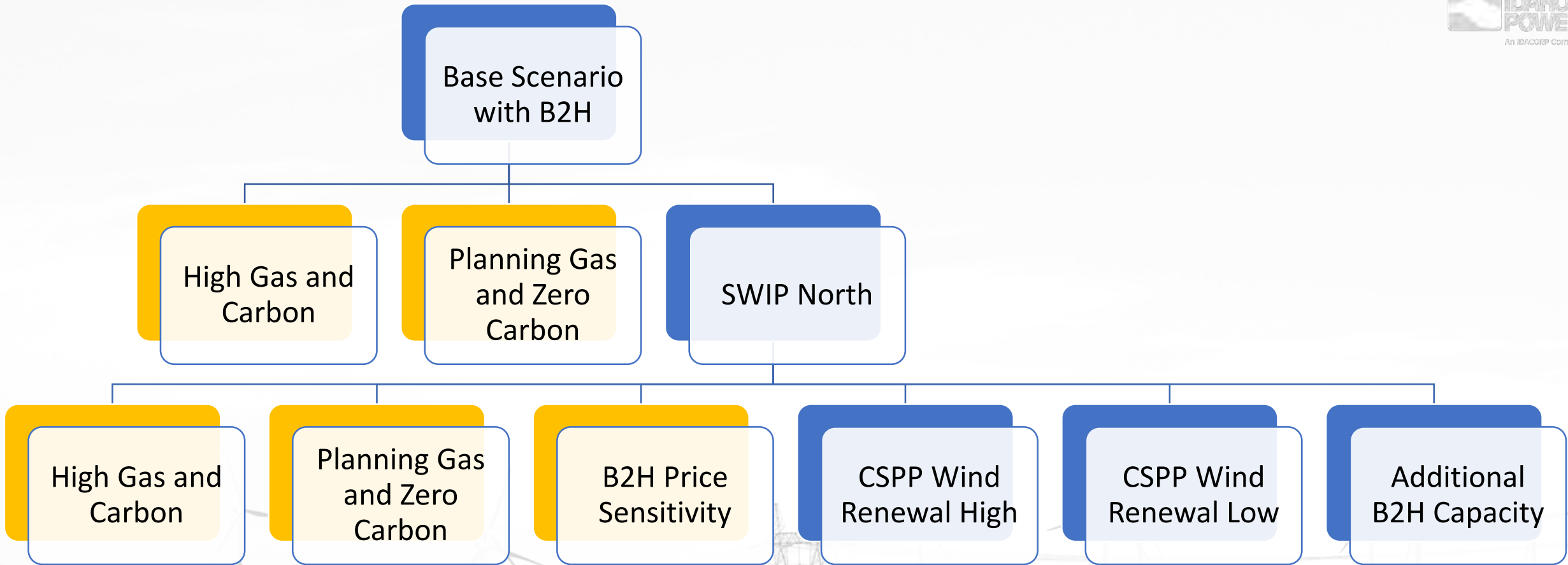
Color Key

-  Long-Term Capacity Expansion (LTCE) Run
-  Production run sensitivity





Color Key

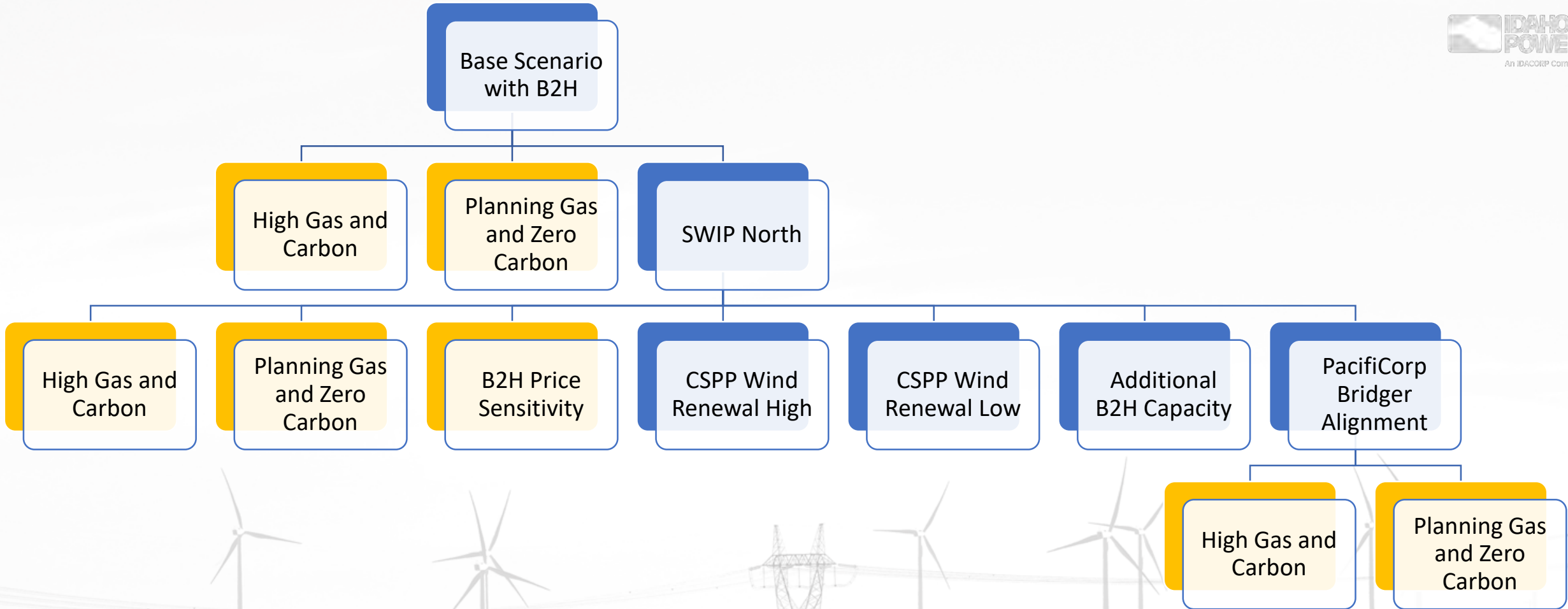
-  Long-Term Capacity Expansion (LTCE) Run
-  Production run sensitivity




Color Key


 Long-Term Capacity Expansion (LTCE) Run

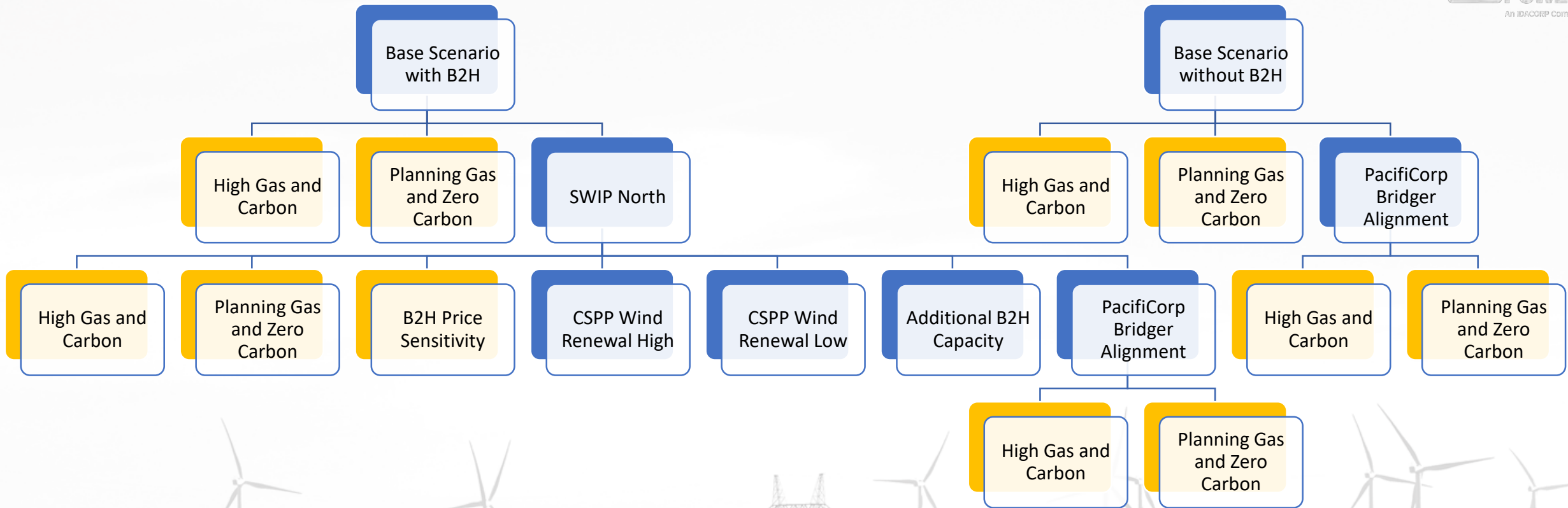
 Production run sensitivity



Color Key

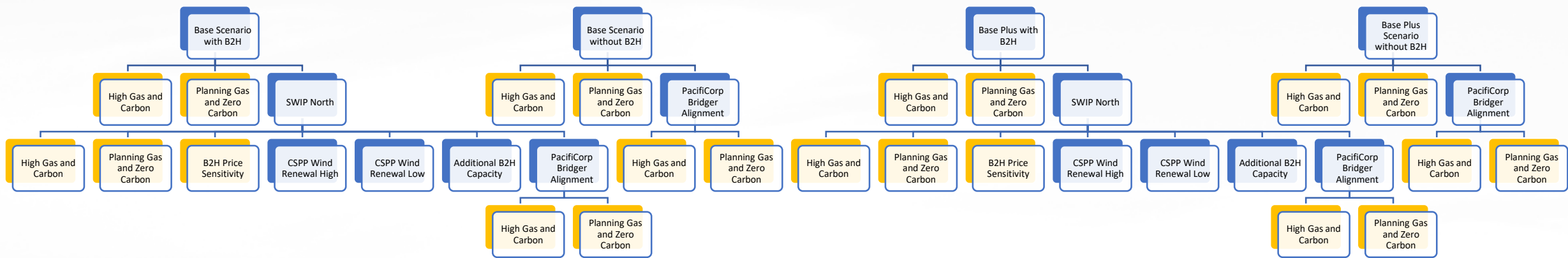
 Long-Term Capacity Expansion (LTCE) Run

 Production run sensitivity



Color Key

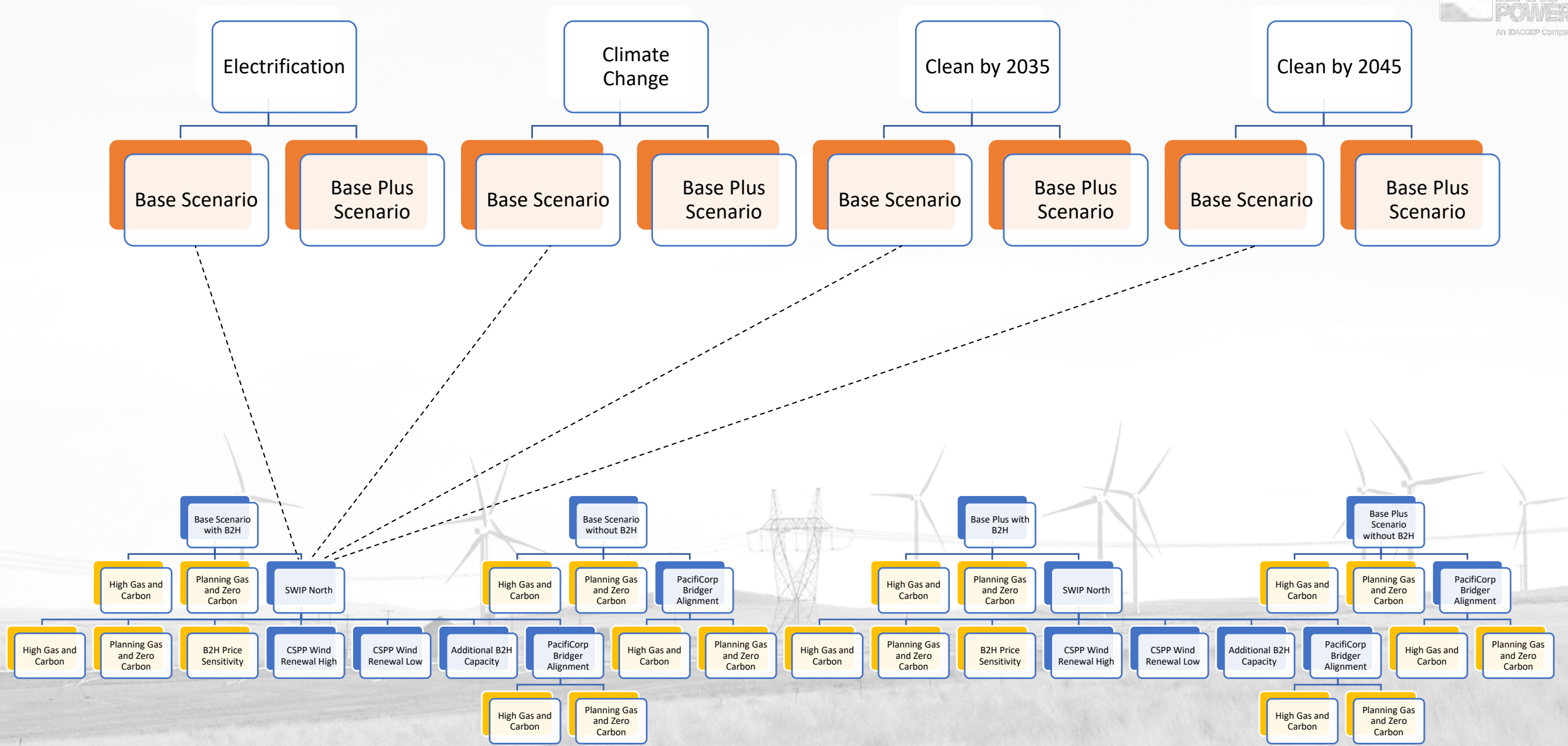
- Long-Term Capacity Expansion (LTCE) Run
- Production run sensitivity



Color Key

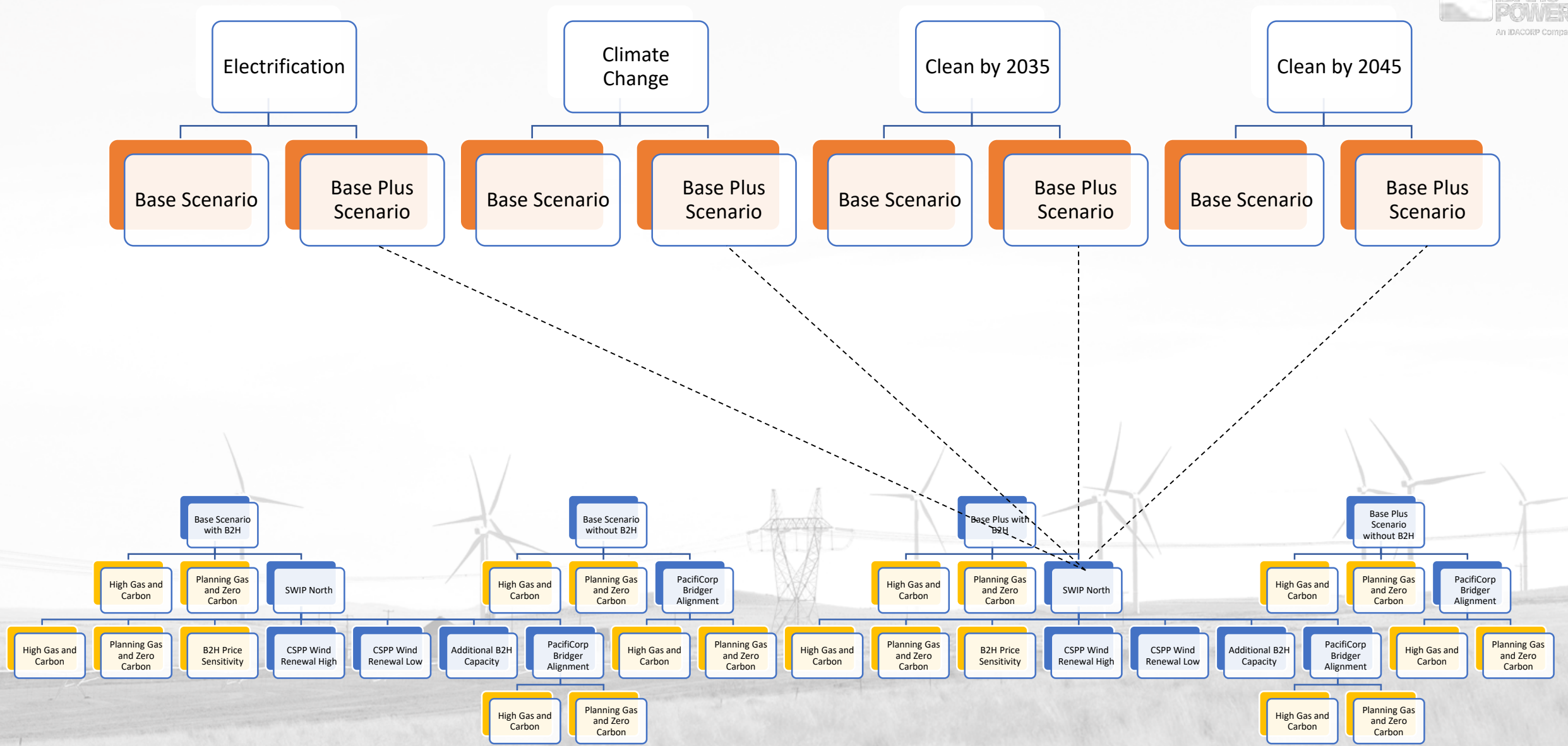
- Long-Term Capacity Expansion (LTCE) Run
- Production run sensitivity





Color Key

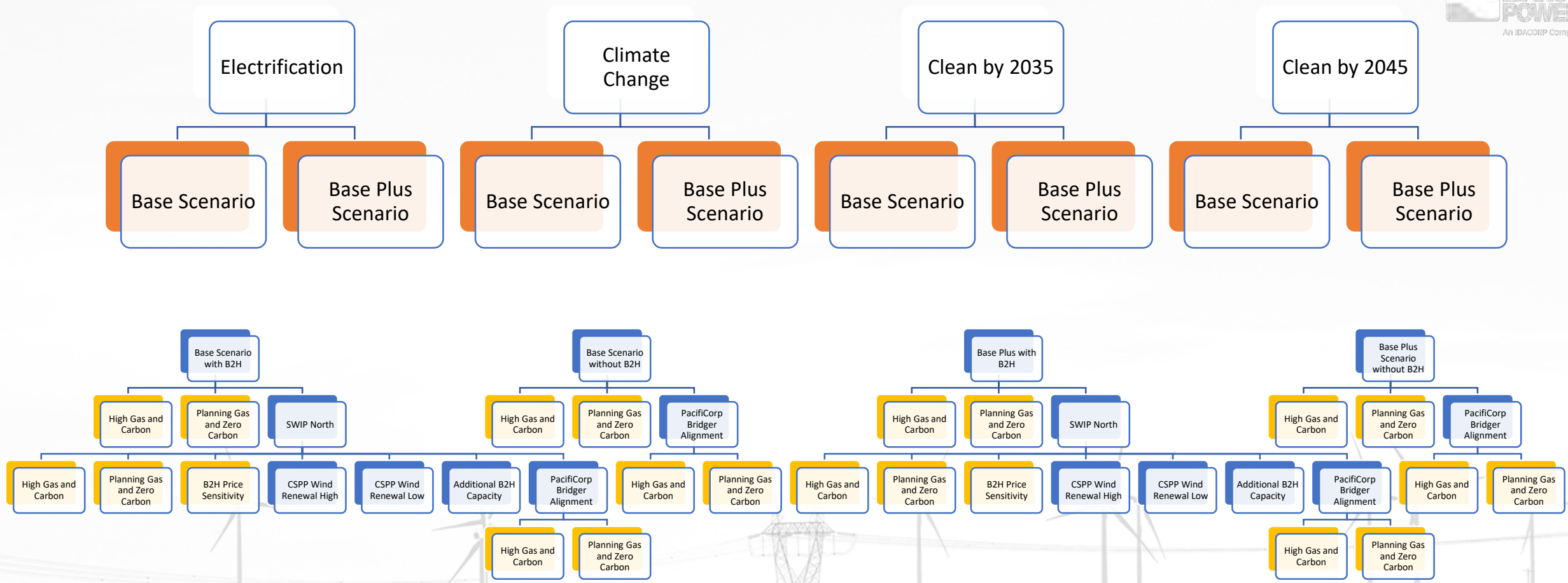
- Long-Term Capacity Expansion (LTCE) Run
- Production run sensitivity



Color Key

Long-Term Capacity Expansion (LTCE) Run

Production run sensitivity



Color Key

- Long-Term Capacity Expansion (LTCE) Run
- Production run sensitivity

IRP	Total LTCE Runs	Total Production Runs
2021 IRP	32	54
2019 IRP	24 WECC Optimized + 24 Manually Optimized	96 WECC Optimized + 96 Manually Optimized