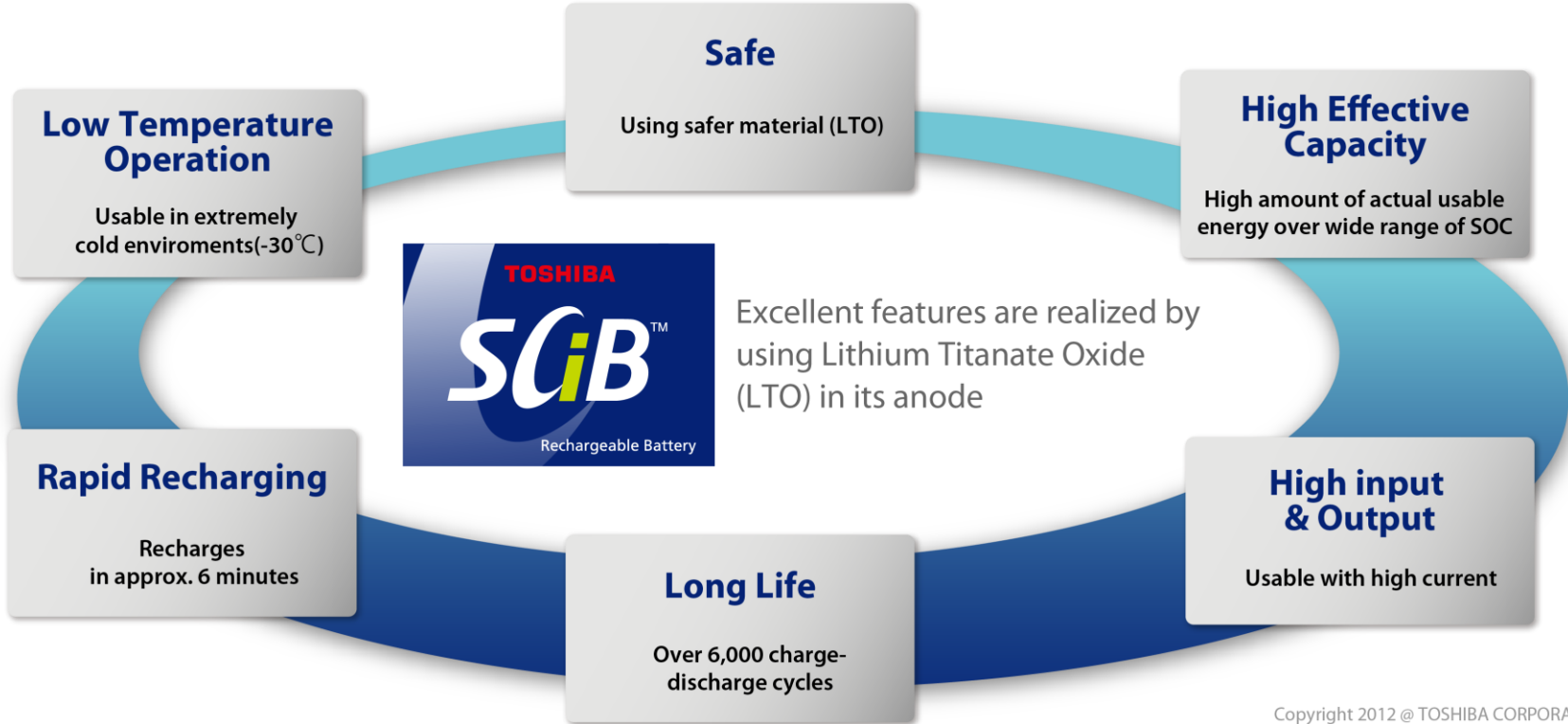


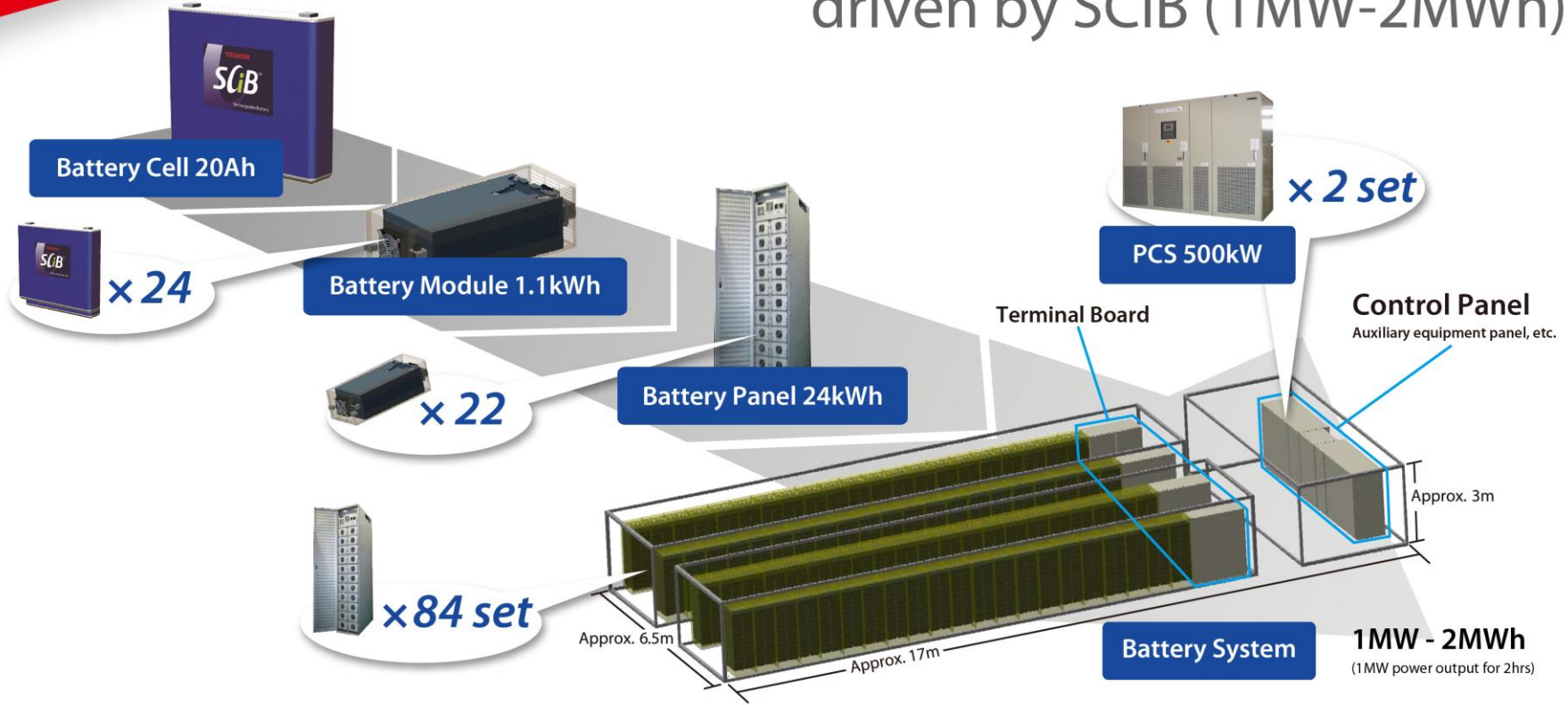
Benefits of Battery for Grid operations

**Battery contributes to grid operation by charge/
discharge at appropriate timing**

The features of SCiB™

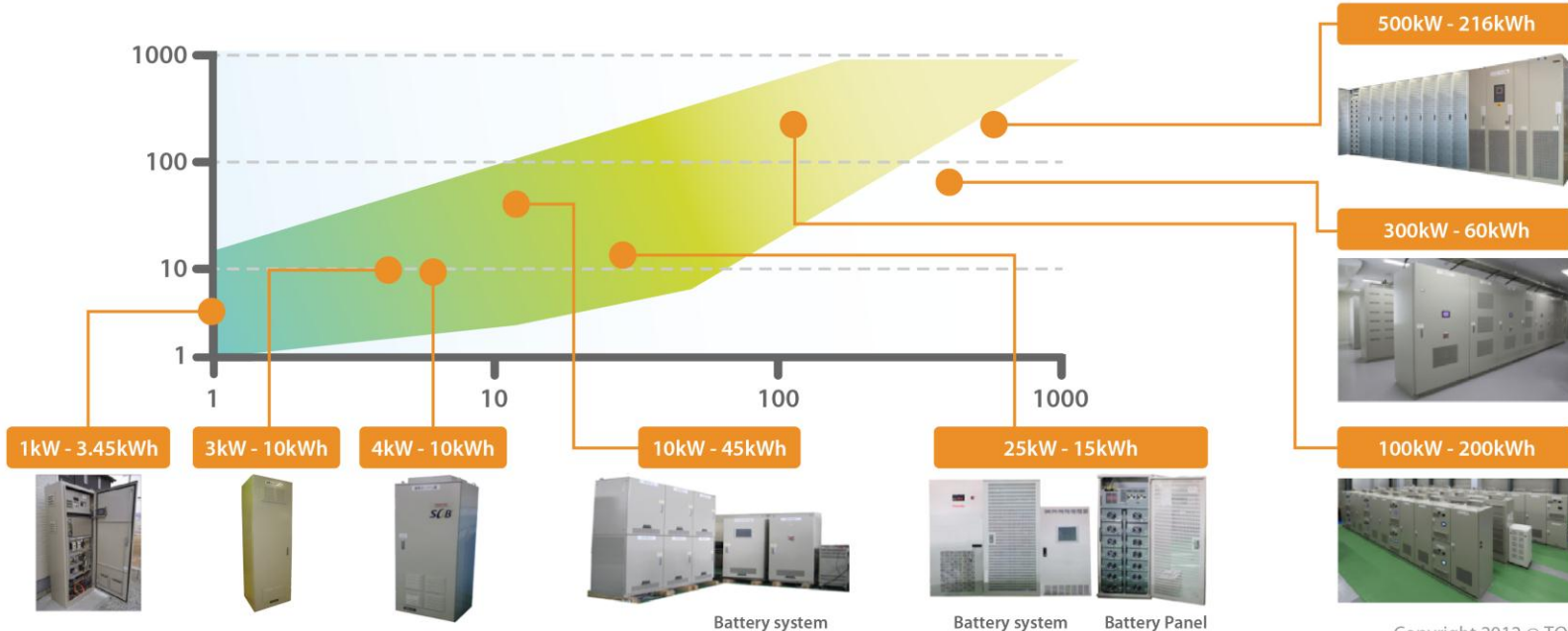


Large-Capacity Battery System driven by SCiB (1MW-2MWh)



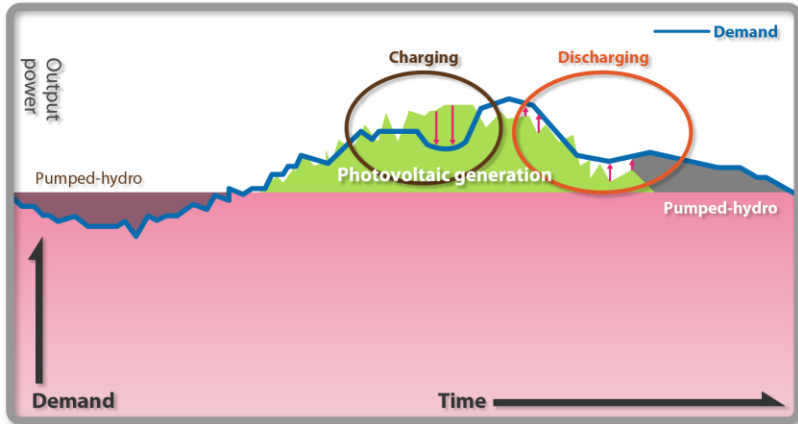
The Battery Energy Storage Systems using SCiB™

Battery output (kW) and capacity (kWh) can be chosen for the purpose



Peak-Shedding

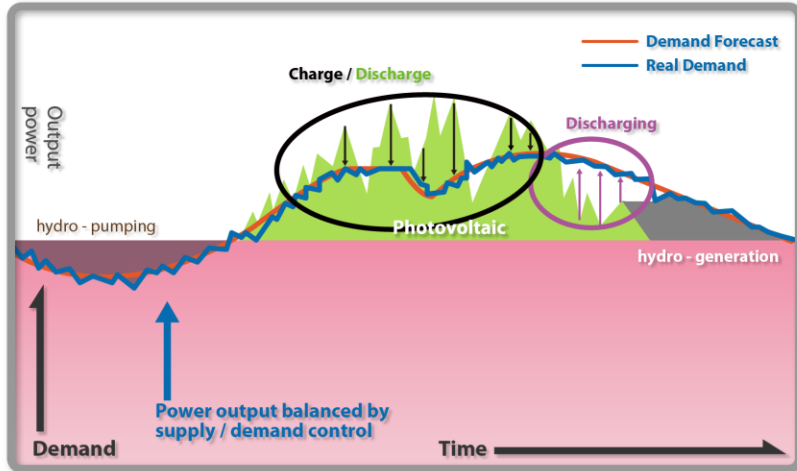
Maintaining the demand-supply balance via Battery Control



Load leveling with battery charging during the low demand and discharging during high demand

- Improvement of availability of highly efficient thermal power generators (CO₂ reduction)
- Efficient operation of thermal power generators (CO₂ reduction)
- Investment reduction of generation facilities of peak-demand
- Investment reduction of electricity access, distribution, and transmission facilities for demand

Regulation and Reserved Power Capacity

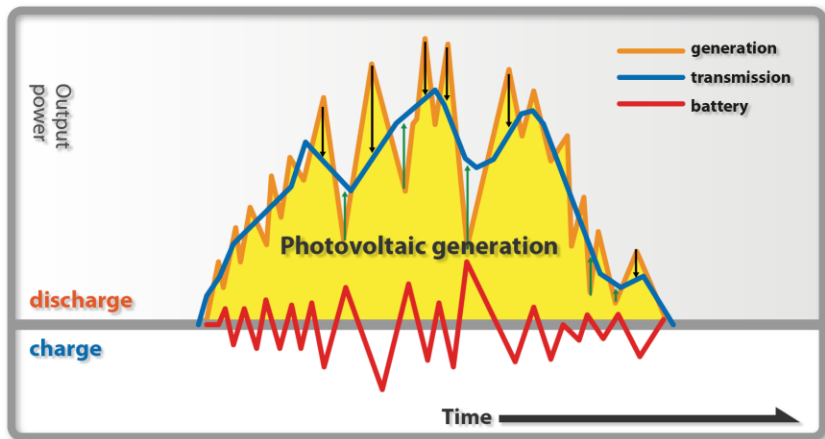


Charging or Discharging to balance demand and supply in case of the insufficient capacity of thermal power generation

- Stable operation by balancing supply and demand on the grid
- Reducing the adverse effect of excessive renewable energy resource
- Efficient operation of thermal power generators (CO₂ reduction)

Controlling Power Quality

Fluctuation suppression of output power via battery control



Controlling Power Quality in grid with plentiful Renewable Energy

Offsetting renewable energy's fluctuation with battery charging/discharging

- Tie line flow control of micro grid
- Reducing the adverse effect of fluctuations on distribution and transmission grid
- Compensating the difference between actual and forecasted demand and supply in the micro grid.
- Standalone operations and power loss compensation