Reverse Osmosis Hybrid Membrane Inter-stage Split Permeate (HISPD) Design Method

CLAIM:
A “Reverse Osmosis (RO) Design Method” and its associated “Decision Tool” which produce design criteria to reduce total cost of water in RO desalination and water reuse applications.

NOVELTIES:
- Low energy consumption
- Increased water recovery
- Balanced permeate flux.

FEATURES:
- Improved operational efficiency.
- Utilizes currently existing RO membranes.
- No additional capital cost when compared to conventional designs.
- Applicable to both operational plants as well as new designs that utilize membrane technology.

APPLICATIONS:
- Seawater Desalination
- Brackish water desalination
- Water Reuse
- All unit operations using reverse osmosis Improved operational efficiency.
- Utilizes currently existing RO membranes.

INVENTOR(S) EXPERTISE

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