



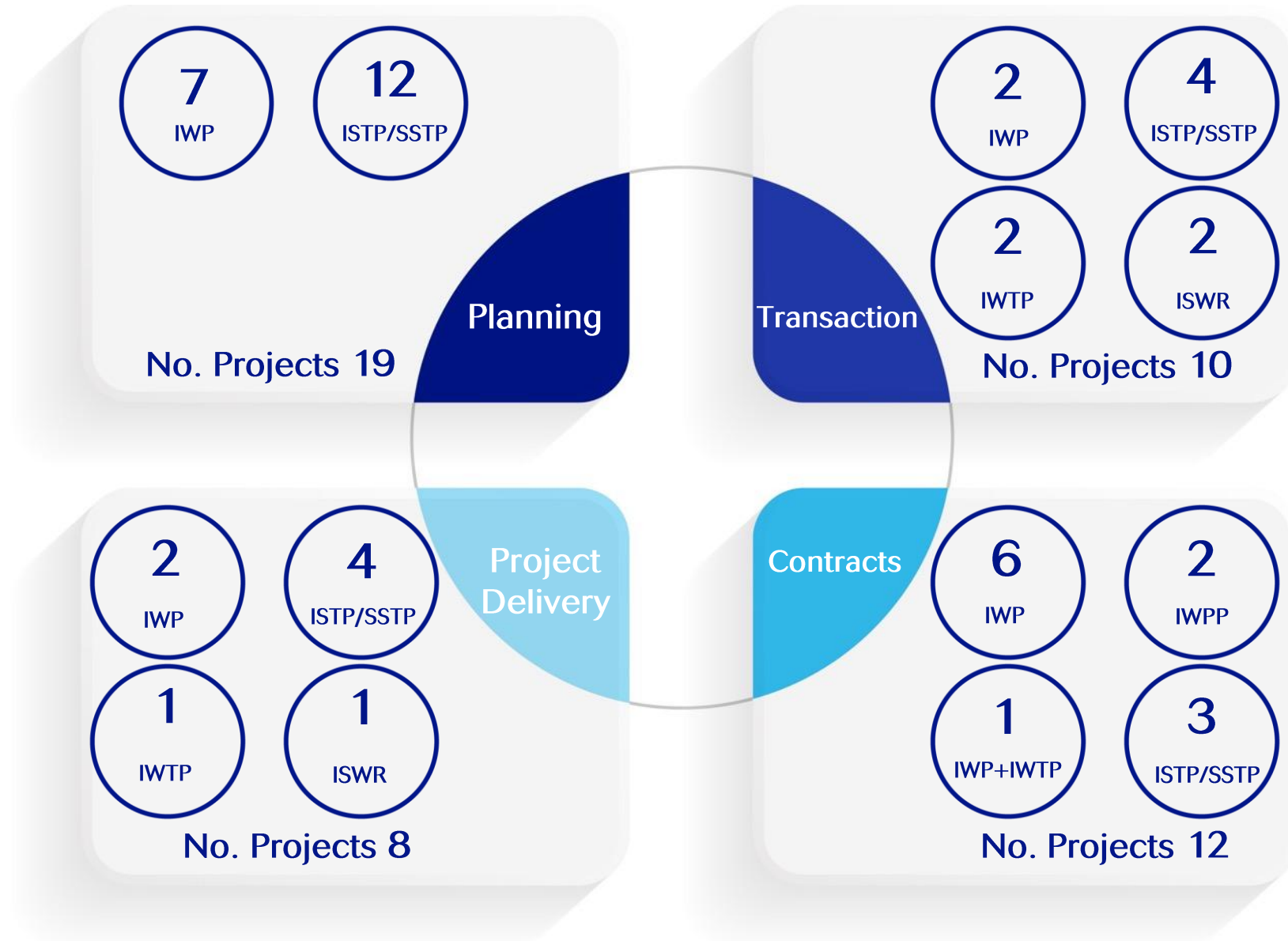
The Future of Desalination

Global Water Summit – GWI

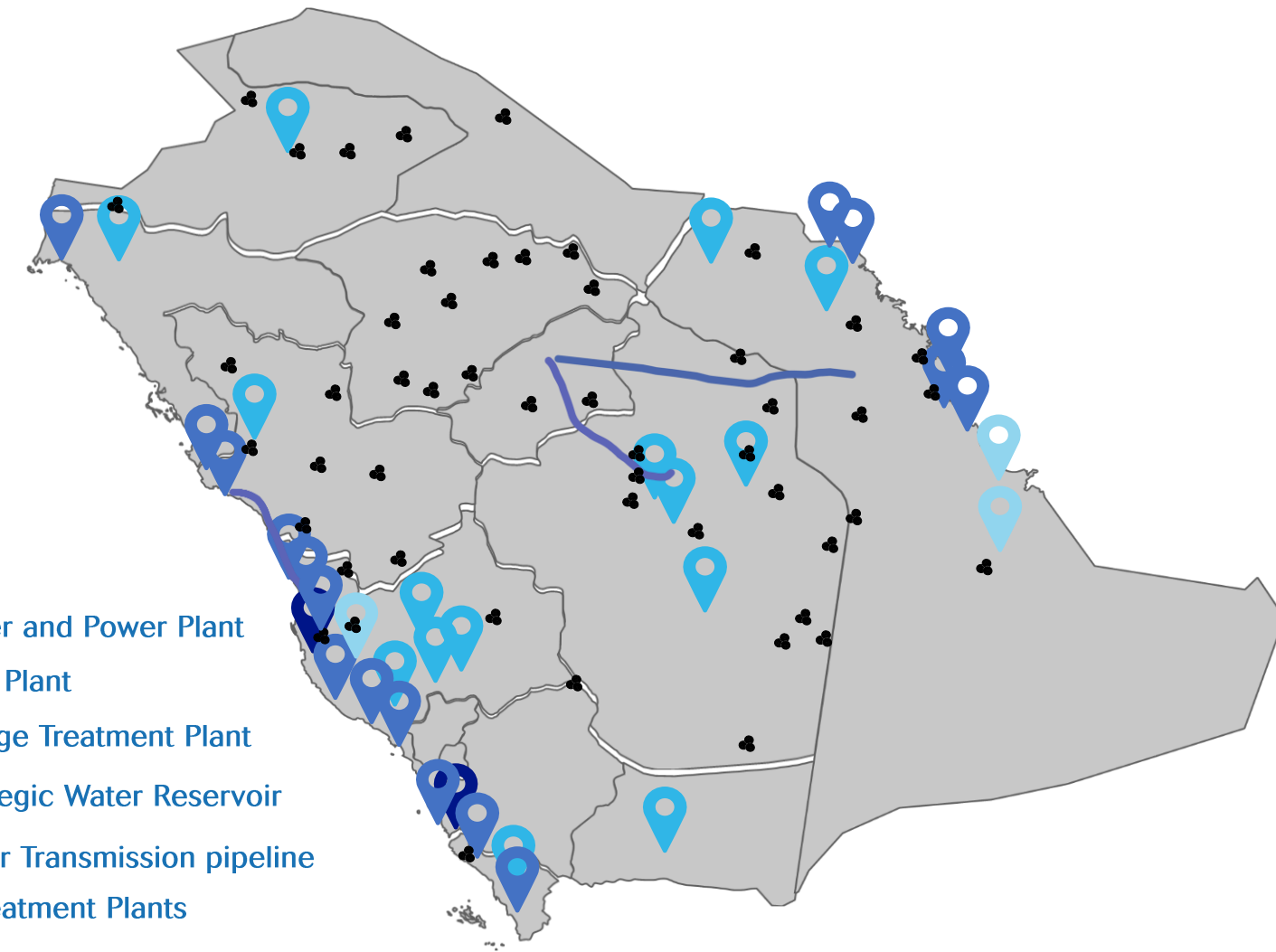
May 2025



SWPC's Portfolio



- IWPP: Independent Water and Power Plant
- IWP: Independent Water Plant
- ISTP: Independent Sewage Treatment Plant
- ISWR: Independent Strategic Water Reservoir
- IWTP: Independent Water Transmission pipeline
- SSTPs: Small Sewage Treatment Plants





SWPC's Portfolio Across the Kingdom

Public Sector

Public Sector Contracts

Number of Desalination Plants **25**

Number of Transmission Lines **07**

Total Assets **32**

6.4 Million
M3 / Day

Total Contracted
Capacities for
Water Production
for the Public
Sector

11.09 Million
M3 / Day
8,925 KM

Total Contracted
Capacities for
Transmission Lines
for the Public
Sector

Private sector

6.6 Million
M3 / Day

Total Contracted
Capacities for the
Private Sector
(Production +
Treatment)

1.1 Million
M3 / Day

Contracted
Capacities of
Transmission
Lines

2.5 Million
M3

Total Contractual
Capacities for
Strategic
Reservoir for the
Private Sector

194 KM

Total Length of
Contracted
Capacities for
Transmission
Lines

12 Billion USD

Private Sector
Investments

13 Million M3

Total Contracted
Capacities for
Water Production
and Treatment for
the Public and
Private Sectors



Portfolio of Desalination Projects

Under Planning

Ras Al Khair 2	600,000 m ³ /d
Ras Al Khair 3	400,000 m ³ /d
Shuqaiq 4	400,000 m ³ /d
Jazan 1	300,000 m ³ /d
Rayis 2	300,000 m ³ /d
Rabigh 5	400,000 m ³ /d
Tabuk 1	400,000 m ³ /d

Under Tendering

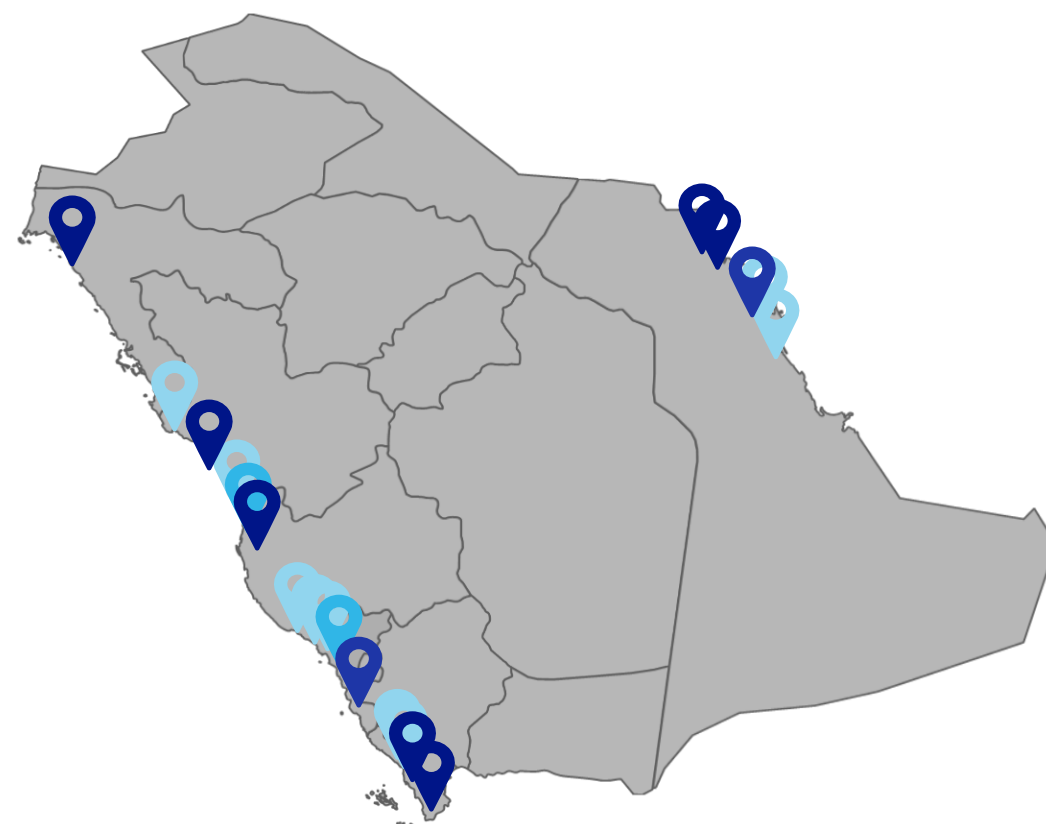
Jubail 4&6	600,000 m ³ /d
Ras Mohaisen	300,000 m ³ /d

Under Construction

Rabigh 4	600,000 m ³ /d
Shuaibah 3 Conversion	600,000 m ³ /d

Under Operation

Jubail 3A	600,000 m ³ /d
Jubail 3B	570,000 m ³ /d
Shuqaiq 2	212,000 m ³ /d
Shuqaiq 3	450,000 m ³ /d
Yanbu 4	450,000 m ³ /d
Rabigh 3	600,000 m ³ /d
Shuaibah 3	880,000 m ³ /d
Shuaibah 3 Exp 1	150,000 m ³ /d
Shuaibah 3 Exp 2	250,000 m ³ /d



Under Planning

Under Tendering

Under Construction

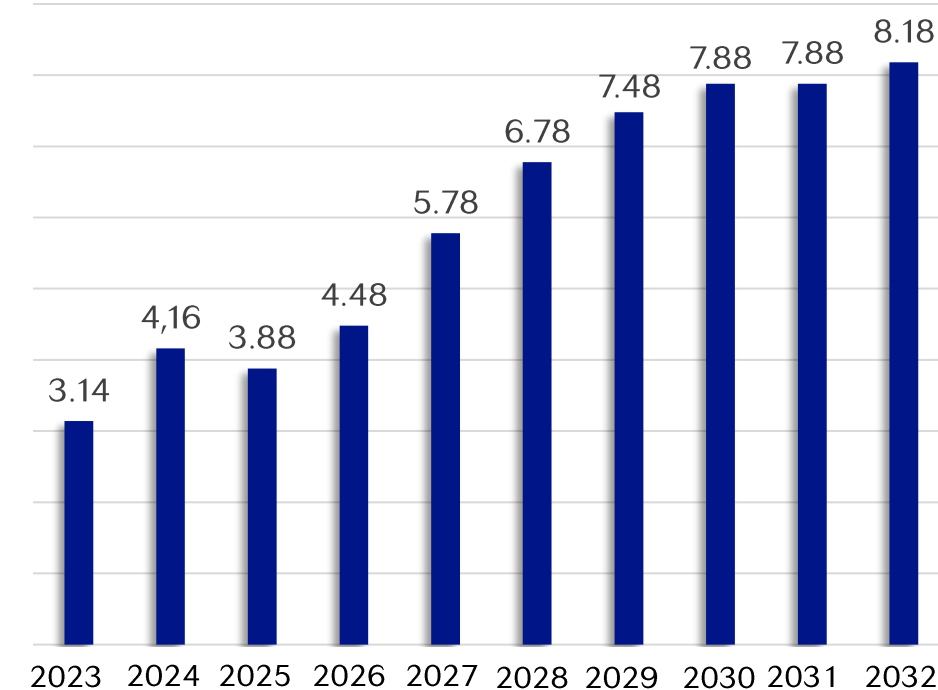
Under Operation

8.1 Million m³ / day

Capacity Plans up to 2032

Date of Commercial Entry

Capacity M (m³/day)





SWPC's Achievements and Contributions

1st

IWP + IWTP

YANBU 4, the 1st-ever IWP where the scope was significantly modified, post FC, to include Water Special Facilities (WSF) primarily a 38-Kms transmission pipeline. It also has 2-day on-site potable water reservoir facility. Additional Capex on WSF (\$ 301 MN) was relatively significant to that on the main plant, IWP (\$ 578 MN). The project achieved FC in 2021.

1st

IWTP

1st-ever batch of Water Transmission Pipelines tendered on PPP basis as IWTPs. All earlier projects were developed on EPC/DB basis by SWCC. Rayis – Rabigh IWTP is 1st first of its kind as partnership with private sector (BOOT) and two other projects upcoming.

1st

Strategic Reservoir

1st-ever batch of Strategic Water Reservoir tendered on PPP basis as ISWRs. All earlier projects were developed on EPC/DB basis by SWCC / NWC. Namely Juranah ISWR is 1st first of its kind as partnership with private sector (BOOT) and two other projects upcoming.

1st

ISTP + TSE Transmission Lines

1st-ever batch of ISTPs where the scope includes development of related TSE facilities to transport TSE from the ISTP to the user (SIO), ranging from 24 to 34 Kms.

1st

Conversion Projects

Desalination technology upgrades from thermal to reverse osmosis, implementation of contractual clauses on the energy cap and solar energy requirements, target reduction of 10M t co2e by 2028.



Awards and Recognition

SWPC and its projects have earned multiple prestigious distinctions, including being named Water Agency of the Year, receiving the honor of Desalination Plant of the Year, and being recognized as a trailblazer in water sustainability and innovation, among other notable achievements.



Lowest Tariff

Lowest levelized tariff SWPC has achieved the lowest levelized tariff on the market for the 600,000 cubic meters per day (cm/day) Jubail 3A Independent Water Project (IWP).

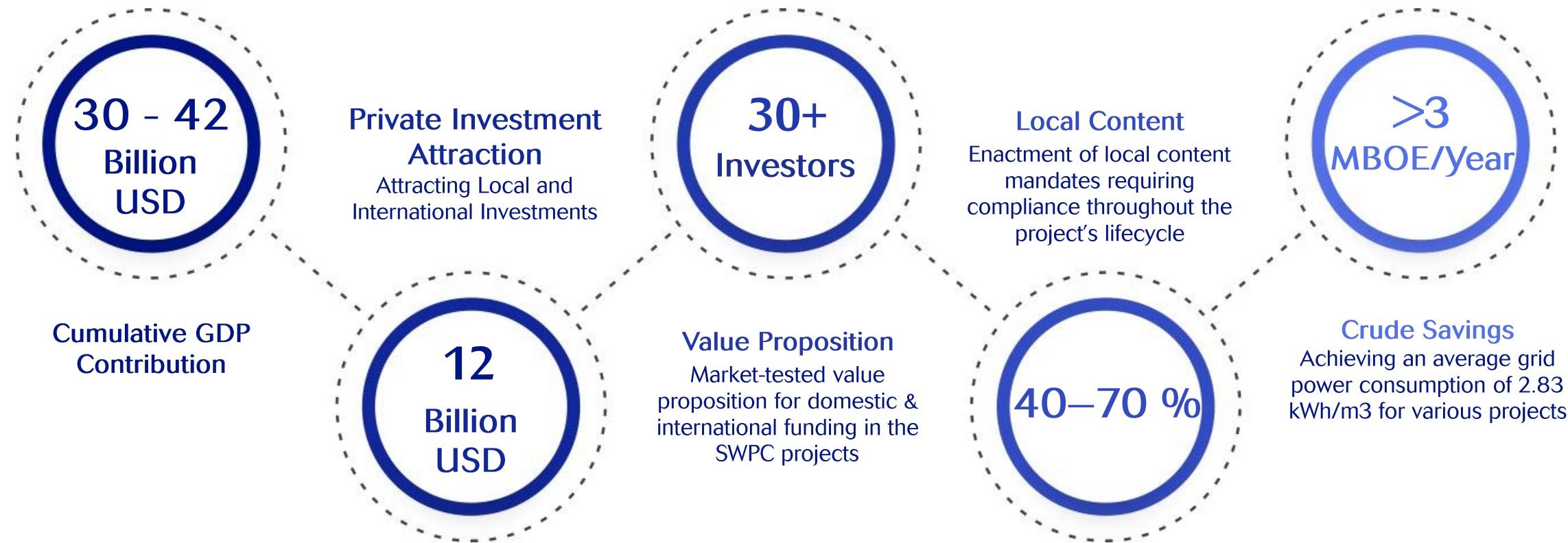
1st

SSTP + Collection Networks

1st-ever batch of ISTPs where the scope includes development of related TSE facilities to transport TSE from the ISTP to the user (SIO), ranging from 24 to 34 Kms.
Achieved Commercial Close for all the three projects during 2021.



SWPC's Achievements and Contributions



Environmental Standards



10.5 million tons of carbon emissions have been saved **annually** by utilizing renewable energy in our projects, improving the efficiency, and developing technologies.

Community Partnership



Sharakh Program:

The Sharakh Initiative focuses on the training of recent bachelor's and master's degrees graduates in certain scientific disciplines. The program offers diverse work tasks through which knowledge, expertise, and skills are transferred and applied in various contexts. Over 100 trainees have been trained since the program was launched in 2020.

Developer Qualification Program:

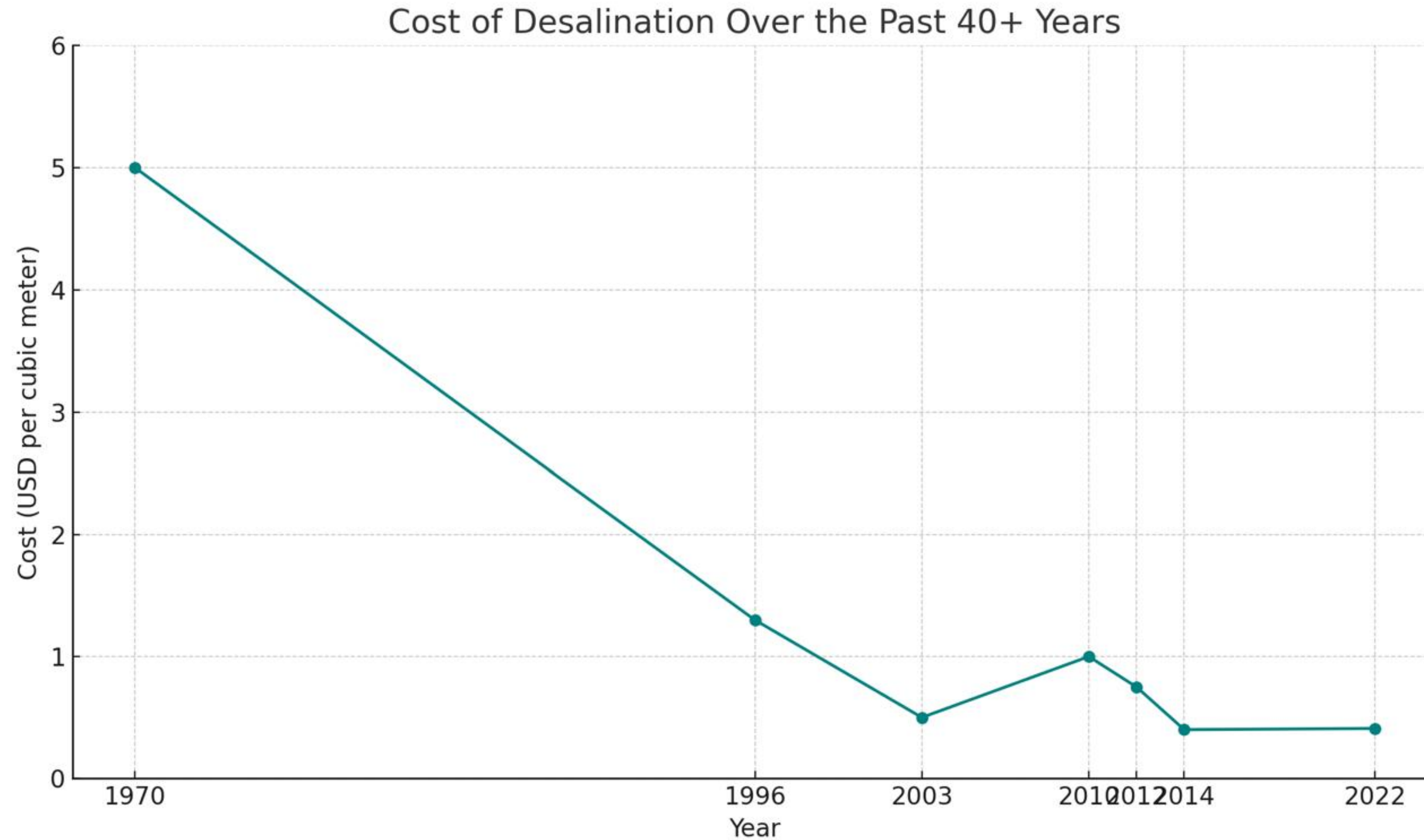
The Developer Qualification Initiative is an initiative by SWPC (the Saudi Water Partnerships Company) for all local and international developers to obtain pre-qualification privileges and receive Request for Proposal (RFP) documents for its future projects without the need to submit a qualification request for each project.

Local Contractor Incentive Program:

SWPC has developed an initiative to encourage and educate local contractors about privatization efforts in line with Vision 2030. The initiative aims to create an enabling environment for the public and private sectors to engage in and contribute to the development of future water sector projects, moving away from traditional implementation, operation, and maintenance roles.



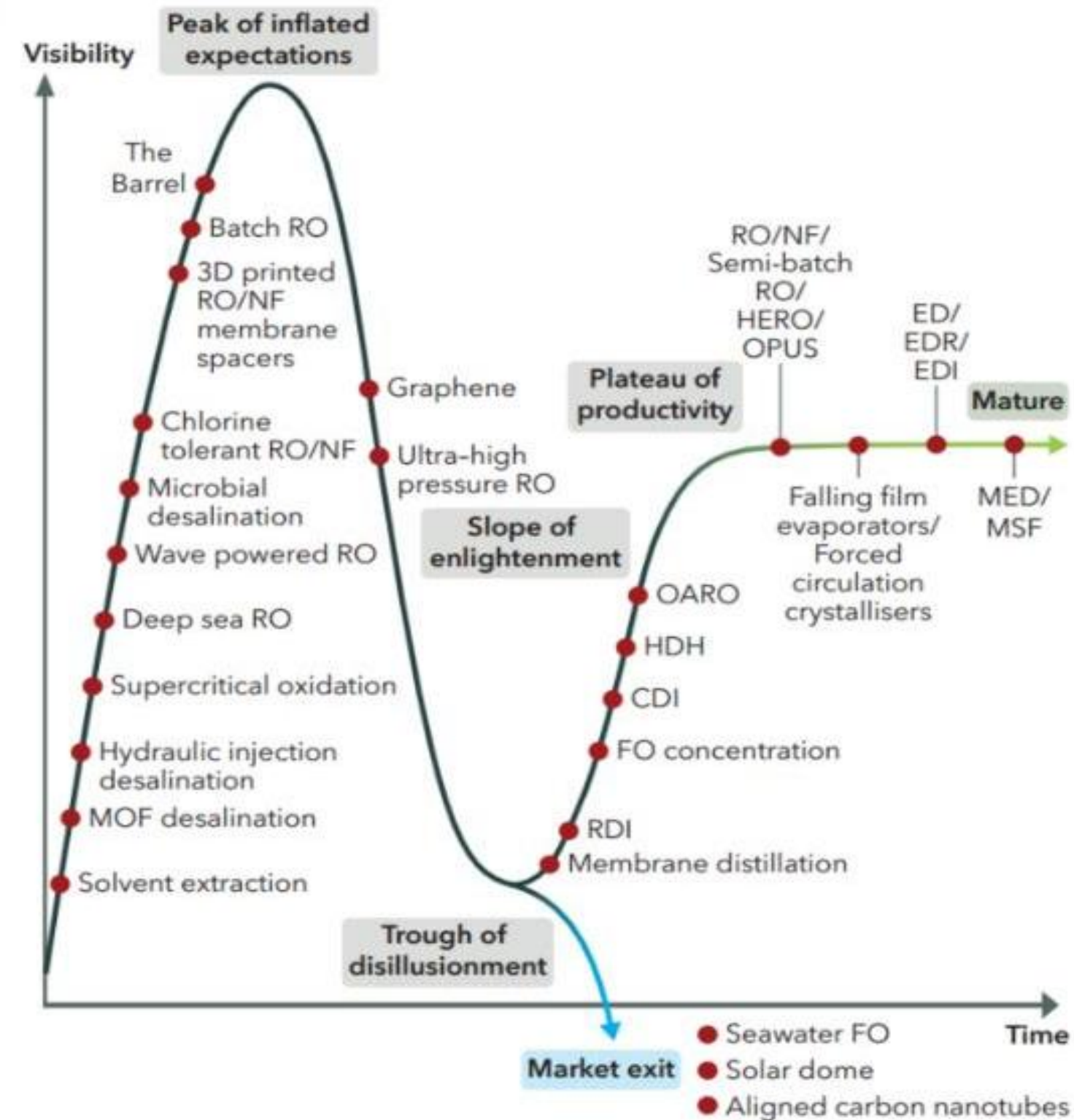
Historical Cost of Desalination





Future of Desalination Technologies — Source GWI

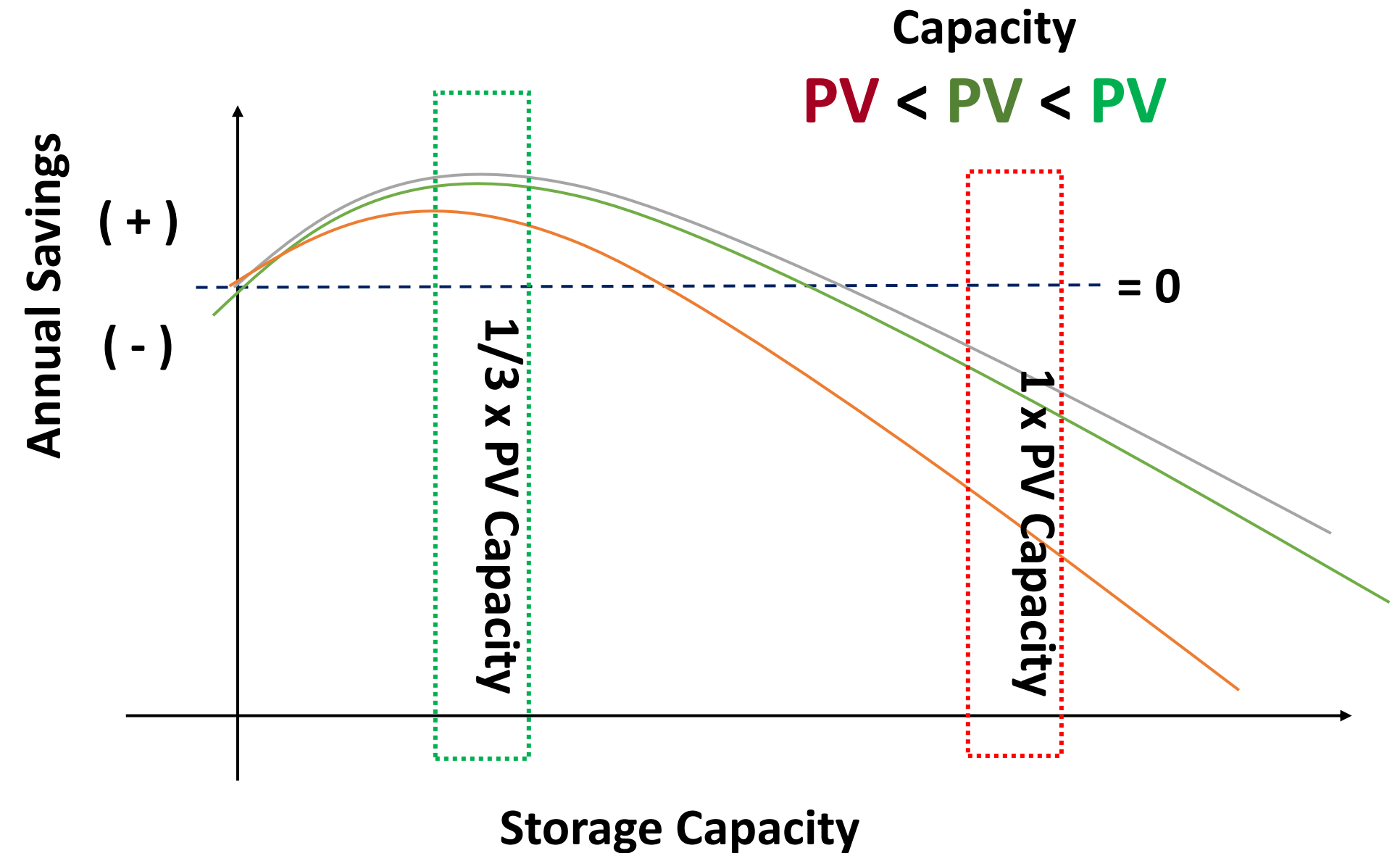
Commercialization of new technologies





Desalination-Energy Storage Integration Economic Considerations

- **Challenges:**
 - Current storage cost typically high
 - Requirement of large PV field for operation and battery charge.
 - Integration optimization
 - Investments are feasible when saving is positive.
- **Future Trends:**
 - Advancements in battery technology.
 - AI-powered energy management





Thank you



in X YouTube

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