SYNWATER®

Flexible Treatment & Transport Systems Powered by Renewables

Company Presentation on

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SYNLIFT industrial products

Market

Electricity Market

- Modern solar & wind technologies generate electricity with less than 3 - 6 EURCents/kWh at increasing number of sites presenting
- Lower and more long-term stable costs than conventional power.

Water Market

- Final product costs for energy-intensive water treatment and/or transport processes - conventionally powered - result in energy cost shares of up to 70% and more (e.g. in desalination).

Conclusion

- Energy-intensive water processes mainly powered by solar and/or wind power enable significant benefits compared to conventional powered ones.

Challenges

Water processes primarily powered by the fluctuating and not completely controllable renewables solar & wind require storage facilities on:

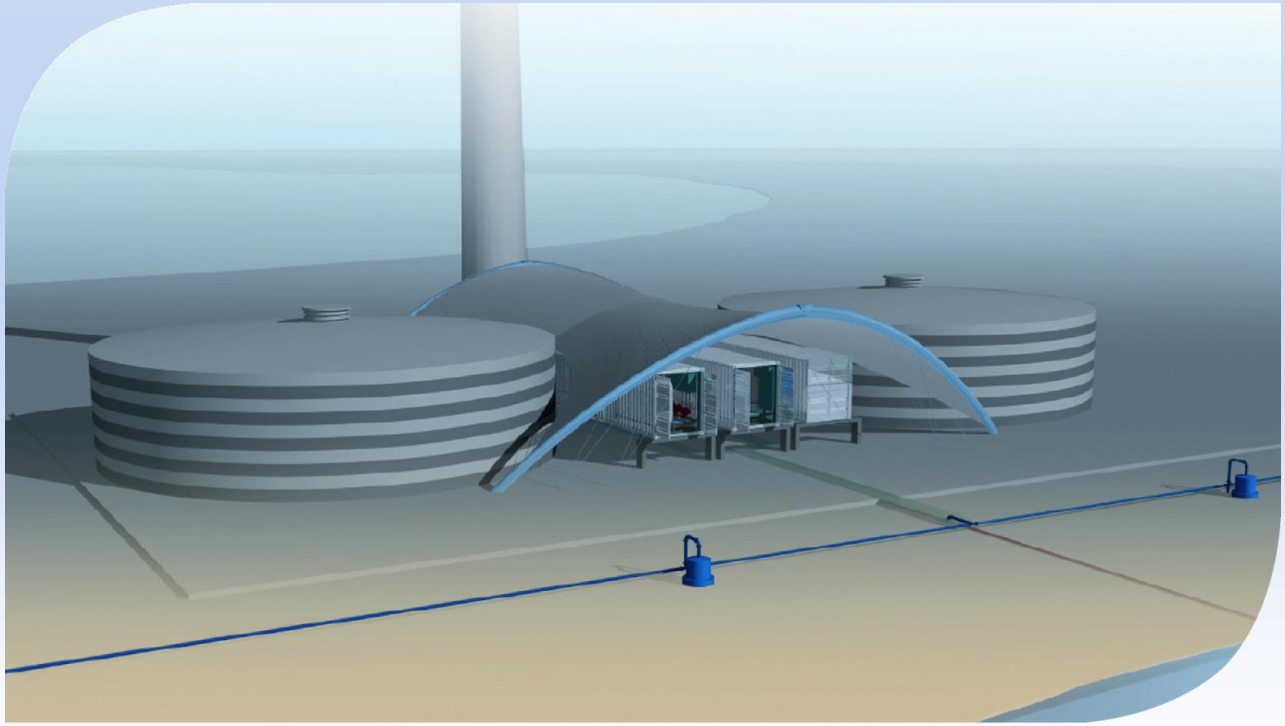
- *Energy side* (batteries) for small capacities (up to ca. 50 m3/d) only;
- *Product side* (water tanks and reservoirs in combination with flexible process capacities) especially for *medium* (less than 2,500 m^3/d) and *large* capacities (more than 2,500 m^3/d) .

SYNWATER® technology

- Continuous power adaptation by highly flexible SYNWATER® modules combined with integrated load management SYNWATER®*LM*;
- SYNWATER®*LM*: power controlled for wind/solar combination, price controlled for individual spot market power purchase;
- Modular resp. tailor-made applications for medium resp. large capacities;
- Additional options: water transport package, off-grid package, medium/high penetration choice;
- Current focus: seawater desalination, expansion into other water technologies scheduled.

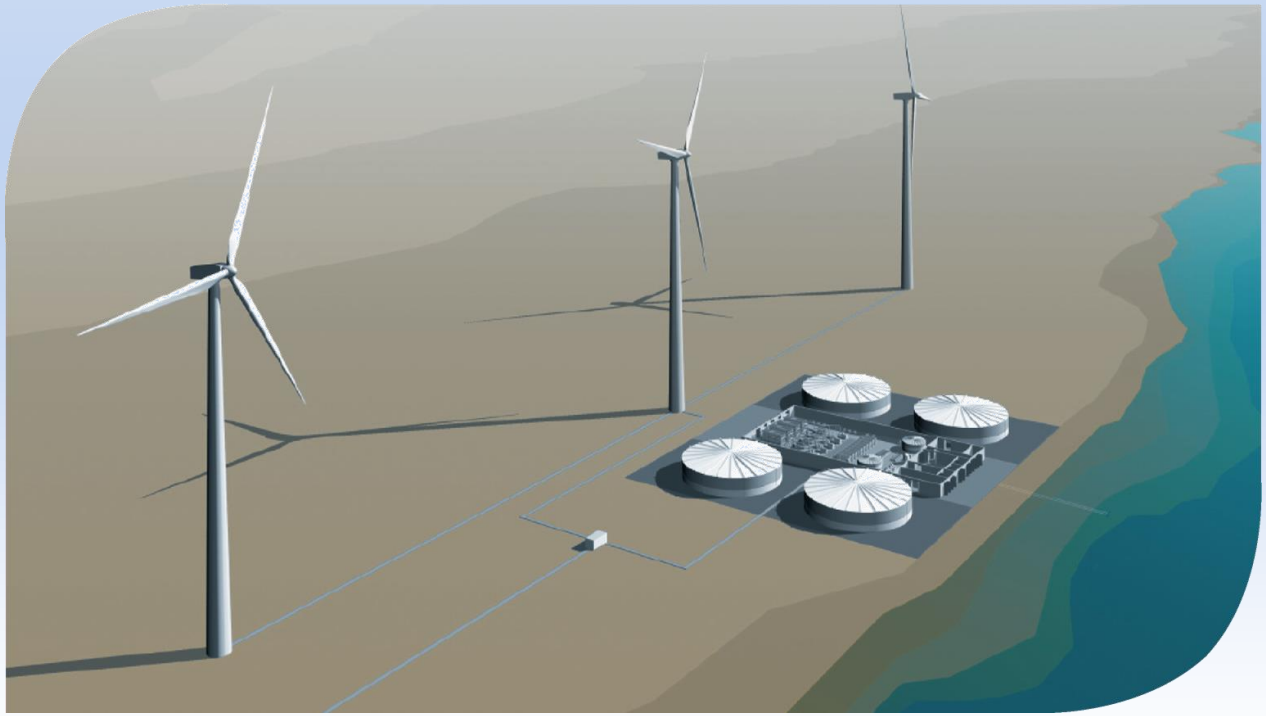
SYNWATER® for medium capacities

Plant capacity:	100 – 2,500 m³/d;
Module capacity:	5 container sizes (50 / 100 / 200 / 400 / 800 m³/d);
Module equipment:	2 options available;
RE penetration:	2 levels (medium (MP) & high (HP)) available).



SYNWATER® for large capacities

Plant capacity:	more than 2,500 m³/d;
Module capacity & equipment:	individually designed;
Water transport option:	additionally implementable;
RE penetration:	2 levels (medium (MP) & high (HP)) available.



SYNWATER® road map

For medium capacities

- Product development to be completed (2017, 2018);
- International sales system to be built up (2017, 2018);
- Demonstration plant to be completed (2017, 2018);
- Positive earnings from 2019 on.

For large capacities

- International sales system to be built up (2017, 2018);
- Project development to be extended (2017, 2018);
- Product development – selected items only (2017, 2018);
- Positive earnings from 2018 on.

SYNWATER® references

For medium capacities

- Several requests from different parts of the world;
- Demonstration module assembled (but not commissioned yet).

For large capacities

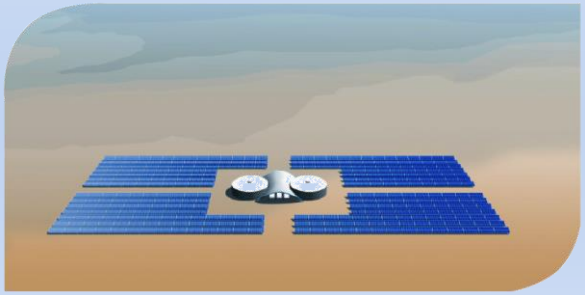
- Solar powered treatment & transport system (SYNWATER® technology) for mining sector in Chile – technical planning contracted (2016 – 2018);
- Wind powered treatment & transport system (SYNWATER® technology) for Sri Lanka – turnkey implementation contract under preparation (2017 – 2018).

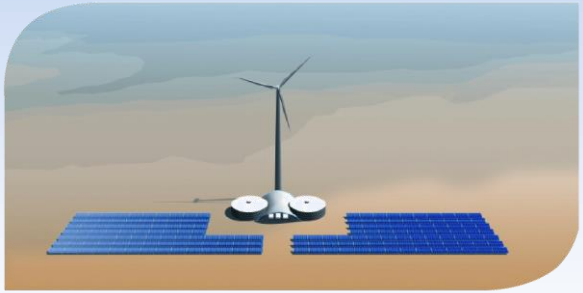
SYNWATER® partner

On our way to become a strong player for solar & wind powered water treatment & transport systems in medium and large scale our team (currently 7 experts for engineering, sales & financial services) is interested to cooperate with suitable investors and/or other partners to take the steps to come.

...if you are interested, please let us speak...

Contact data





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