Sentinel Vision SED-966 03 November 2021



Sihwa tidal power plant, South Korea

Landsat TM acquired on 14 May 1985 at 01:40:56 UTC

Sentinel-1 CSAR IW acquired on 06 January 2017 at 21:39:24 UTC

Sentinel-1 CSAR IW acquired on 01 February 2018 from 21:31:15 to 21:31:40 UTC

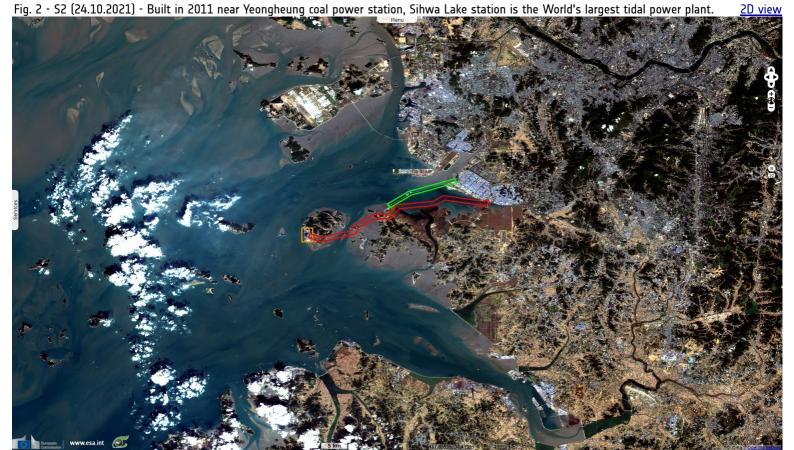
Sentinel-1 CSAR IW acquired on 25 February 2019 at 21:39:42 UTC

Sentinel-2 MSI acquired on 24 October 2021 at 02:17:49 UTC

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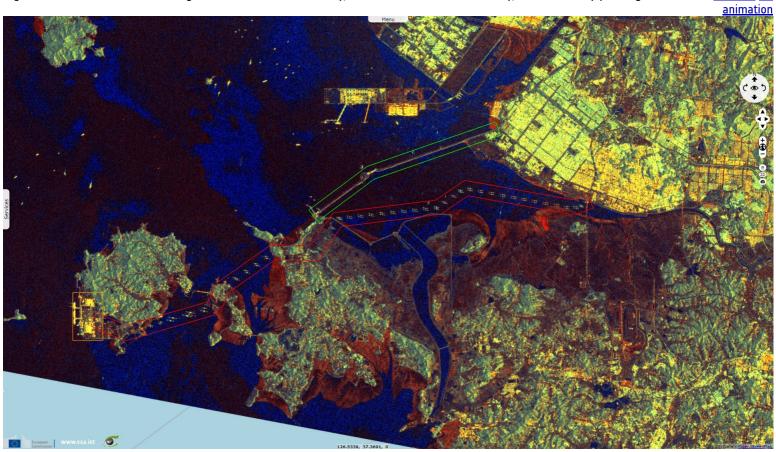


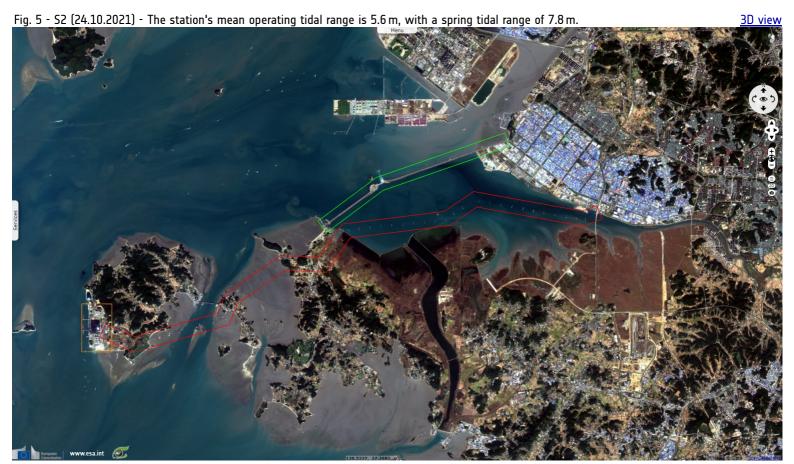


The working basin area was originally intended to be 43 km² and has been reduced by land reclamation and freshwater dykes to 30 km², likely to be reduced further.

After the seawall was built in 1994, pollution built up in the newly created Sihwa Lake reservoir, making its water useless for agriculture. It improved after the reservoir was converted. The tidal barrage makes use of a seawall constructed in 1994 for flood mitigation and agricultural purposes.

Fig. 4 - S1 (25.02.2019) - Power is generated on tidal inflows only, and the outflow is sluiced away, i.e. as one-way power generation. 3D view 3D





Requiring no fuel, it has a regular and predictable energy output. With a power capacity of 254 MW, the power plant generates 552 GWh a year with a capacity factor of 24.8%.

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