

New Tengah, Punggol areas set for tech boost

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Two emerging developments in Singapore are set for a technological boost after government agencies signed two agreements with companies yesterday.

The Housing Board (HDB) and SP Group are exploring a centralised cooling system and energy management system at the new Tengah town, while JTC Corporation and ST Engineering are looking at integrating building systems and estate services on an open digital platform in the Punggol Digital District.

The joint study by the HDB and SP Group may see future residents of a Tengah housing development have the option of accessing a centralised cooling system for their flats. The study will also consider if Tengah can be developed as HDB's first Smart Energy Town by using artificial intelligence (AI), among other things.

An AI system – the Smart Energy Concierge – will utilise smart controls, sensors and algorithms to integrate the town's energy solutions in a coordinated manner to generate efficiencies and energy savings, SP Group said in a statement.

The system will be connected to the energy grid, energy storage systems and solar photovoltaic generators. It will identify patterns and anomalies in energy flows to min-



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PHOTO: HDB

imise disruption to services and optimise energy use.

The HDB inked two other agreements yesterday – one with landscaping firm ISO Landscape to develop a floating solar system for coastal marine conditions, and the other with Robin Village Development to research the use of 3D concrete printing to expand HDB's design and construction capabilities.

Mr Lawrence Wong, Minister for National Development, said at the signing that there is “tremendous

potential to transform and improve our living environment through new technologies”.

The agreement signed by JTC and ST Engineering will see an open digital platform in Punggol in 2023 that integrates systems, helping to manage buildings and security as well as district cooling and waste.

For example, building occupants will be able to give feedback on the temperature through an app so it can be adjusted accordingly, optimising energy use.

Traffic video analytics can detect road conditions and smart traffic lights will adapt signal cycles to clear congestion.

The platform is the first of its kind in Singapore and could be deployed to other areas such as the Jurong Innovation District, said JTC.

Both memorandums of understanding were signed at the World Cities Summit at Marina Bay Sands Expo and Convention Centre.

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