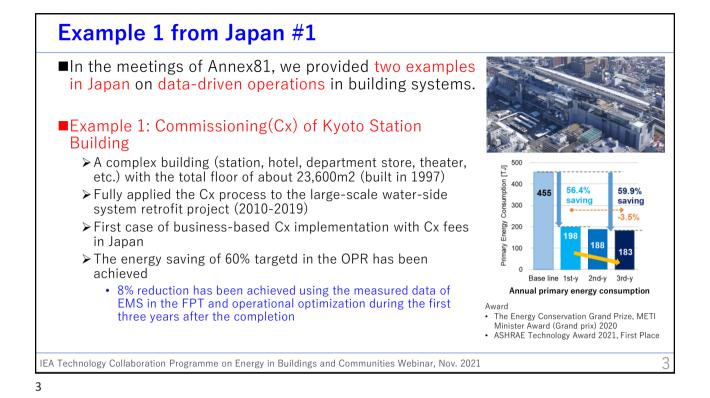
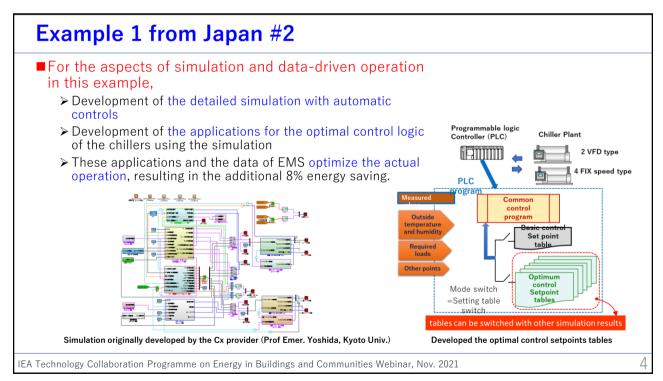
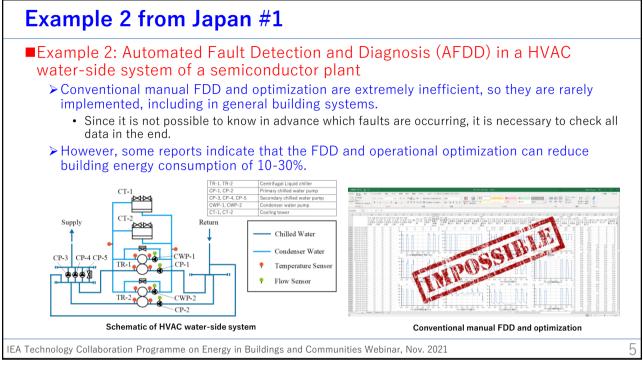


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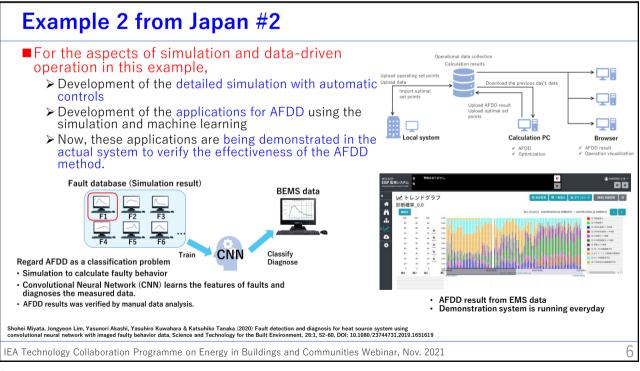
Participation in Annex81 Three main motivations for Japan's participation ➤ Urgent issue for decarbonization of buildings >Importance of data driven operation in existing buildings > Deeply related to the creation of new value and business in the field of building services Domestic committee for Annex 81 ▶ 13 companies, 1 NPO, 2 universities (20 people) Number of Affiliation Industry/Univ., NPO Peopl Chairperson University The University of Tokyo, Tokyo Denki University 3 & Secretaries NPO **Building Services Commissioning Association** 1 NIKKEN SEKKEI, NTT Facilities, P.T.Morimura & Associates Members Design 4 Construction Dai-Dan, Kyudenko, Shinryo, 7 Takasago Thermal Engineering, TONETS **HVAC Manufacturer** DAIKIN 1 Automatic control Azbil 1 Energy Kansai Electric Power, OSAKA GAS, Tokyo Electric Power 3 2 IEA Technology Collaboration Programme on Energy in Buildings and Communities Webinar, Nov. 2021











| Data and applications can improve building er | nergy performance in the operation. |
|---|--|
| Various data and applications need to be utilized to be utilized by the second seco | |
| In Japan, there is very little use of such data a industry in Japan is just at the tipping point. An open platform is still not used in most building A Cloud EMS is used in each example, but it does large amounts of data such as a Graph DB. | gs. |
| Important points for promoting decarbonization of existing buildings Developing data-driven system that can be installed relatively easily during retrofit or normal time, Making building owners and occupants understand the value of installing the technologies with the value of data-driven smartification, Human resources for system integration and application development | Platform Application Applicati |