

Pilot Program Case Study Mustersanierung programme of the Austrian Climate and Energy Fund

Initial situation

The Austrian Climate and Energy Fund has an annual subsidy programme for deep renovations which is administered by the Grant Authority KPC and their partners Grazer Energy Agency who are also credentialed ICP project developers.

In this pilot program, a gap analysis between the Mustersanierung subsidy programme and the ICP Standard Tertiary Protocol (as Mustersanierung only covers tertiary buildings) was conducted to analyse differences between the requirements of the subsidy programme and the ICP Protocol, to make recommendations for the future development of the subsidy programme, and to elaborate how ICP (or elements thereof) could be incorporated in the subsidy programme without substantially increasing the effort required for a grant application.

Application of ICP Standard Tertiary Protocol

The gap analysis followed the 5-phases structure of the ICP Protocol and was conducted by Denkstatt Austria, with feedback and alignment with the Austrian Climate and Energy Fund, KPC and Grazer Energy Agency. The ICP QA checklist and the Mustersanierung grant application checklist formed the basis of the analysis:

ICP QA checklist for IREE certification

Mustersanierung grant application checklist

ICP Phase/Anforderung	Erfüllung
AUSGANGSBASIS (BASELINING)	
12-36 Monate Energieverbrauch Bestand	erfüllt
Abrechnungsperiode Energieversorger	erfüllt
Aufschlüsselung Endenergieverbrauch	erfüllt
Wetterdaten	erfüllt
Belegungsdaten	erfüllt
Gebäudedaten, Betriebs-/Leistungsdaten	erfüllt
Baselined Betriebsdaten	erfüllt
Normalisierte Baseline	erfüllt
Energietaifstruktur	erfüllt
EINSPARUNGSBERECHNUNG	
Qualifikation des Berechners	erfüllt
Wetterdaten	optional
Energieeffizienzbericht	erfüllt
ECM Berechnungen	erfüllt
ECM Inputs und Annahmen	erfüllt
ECM Ergebnisse	erfüllt
Kostenschätzungen	erfüllt
Investitionskriterien	erfüllt
ENTWURF, KONSTRUKTION UND VERIFIZIERUNG	
OPV Plan	optional
Qualifikation des OPV Spezialisten	optional
BETRIEB, WARTUNG UND KONTROLLE	
OM&M Plan	optional
Qualifikation des Projektentwicklers	optional
MESSUNG UND VERIFIZIERUNG	
M&V Plan	optional
Qualifikation des M&V Spezialisten	optional

Project basis

Moreover, the following documents were included in the analysis:

- ICP: Project Development Specification; OPV Plan Template; OM&M Plan Template; M&V Plan Template
- Mustersanierung: Programme Manual Mustersanierung 2017; Template for Energy consumption Monitoring; Template for Bank Report; Guidelines on „Comprehensive Planning“, „Technical Measures“ and „Existing building data compilation“;

Results

Generally, it should be noted that the objectives of a subsidy programme (maximising CO₂-reductions) can differ from the objectives of a certification scheme such as ICP (maximising energy savings and financial returns for investors). The following major results were derived:

- Mustersanierung fulfils major ICP requirements in particular for the ICP phases Baseline, Savings Calculation, and Measurement & Verification
- Mustersanierung's baseline and savings calculation for the building insulation is based on the energy performance certificates before and after the renovation which is not sufficient for ICP
- ICP has more comprehensive documentation requirements on the historical energy use as well as on the inputs, assumptions and calculations
- ICP requires plans for the Design, Construction and Verification as well as Operations, Maintenance and Monitoring phases which aren't addressed in the Mustersanierung programme
- ICP requires documentation on the qualification of the engaged specialists (project developer as well as people responsible for OPV / OM&M / M&V plans which aren't addressed in the Mustersanierung programme

And the following recommendations were made:

- Documentation on the qualification of the engaged specialists can increase the quality of planning documents and savings calculations and therefore of the grant applications
- More information on historical energy use and building use as well as benchmarks can increase the understanding of the project as well as the quality of plausibility checks and measurement and verification activities
- Plans for the Design, Construction and Verification as well as Operations, Maintenance and Monitoring phases can increase project quality in the implementation phases; Templates for such plans could be provided
- A definition of investment criteria could provide access to additional financing options
- ICP or parts thereof could be integrated either through a premium on the standard subsidy rate or as a recommendation on the Mustersanierung programme website

Discussion and Outlook

The pilot program was presented by Mustersanierung Programme Manager Mr. Christoph Wolfsegger from the Austrian Climate and Energy Fund and discussed at the 5th National Steering Committee Meeting in January 2018. The stakeholder feedback from the Steering Committee Meeting was integrated into the final report on the pilot program.

The results, recommendations and opportunities for integration of ICP as well as the final report of the pilot program were discussed with Mr Stelzer, Program Manager at the grant authority KPC, on January 31st 2018. Given the short timeline for the preparation of the 2018 Mustersanierung program (which needs to be finalised at the beginning of March 2018), it was agreed to evaluate a possible integration in the 2019 Mustersanierung program together with the Austrian Climate and Energy Fund at the end of 2018, also based on the further market development/adoption of ICP for Buildings after the end of the Horizon 2020 project.