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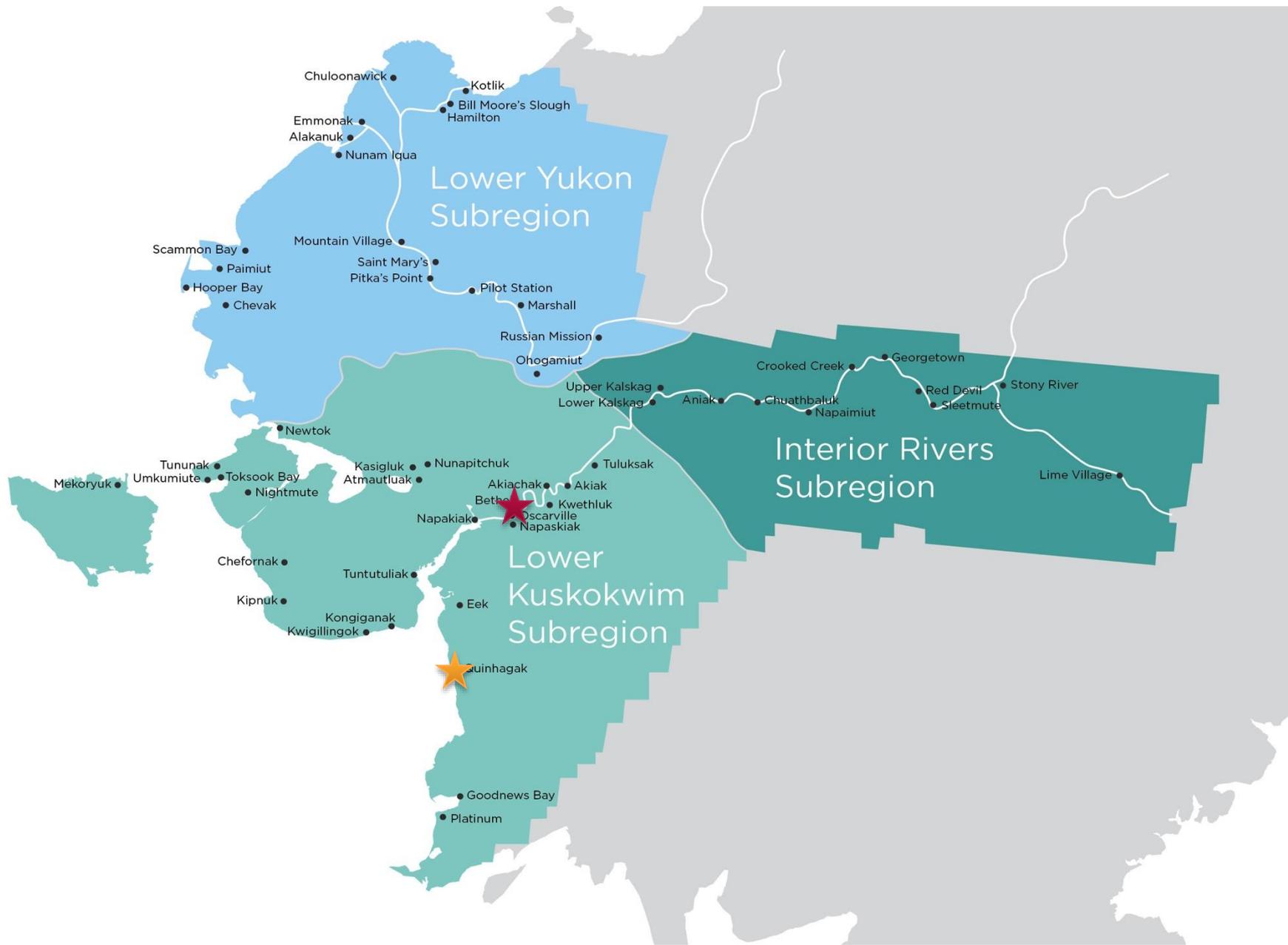
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Whole Village Energy Efficiency Retrofit Project







Quinhagak Project

- **11 buildings community-wide**
 - Focused on buildings with greatest public purpose
 - Owned by the village corporation, tribe, and municipality
- **Total installed costs: Estimated at \$230,000**
 - Includes contingency and down payment (\$70,000).
 - Annual cost savings estimated at \$50,000 annually.
 - Simple payback: just over 4 years



Qanirtuuq (village corporation)

Building	Size (in square ft.)	Date constructed	Previous Audits
Store	8,880	2011	Level 2, 2015
Qanirtuuq HQ	7,291	Early 1980s	Level 1, 2015
Hardware Store	2,688	1990s	Level 1, 2015
Old Pre-school Bldg.	1,066	Within 10 years	Level 1, 2015
Small Shop	1,688	Late 1980s	Level 1, 2015

Native Village of Kwinhagak (tribe)

Building	Size (in square ft.)	Date constructed	Previous Audits
Washeteria	7,264	1994	Level 2, 2015
NVK Admin & Post Office	2,140	Late 1970s	Level 1, 2015
Head Start	2,560	1990s	Level 1, 2015
Bingo Hall	2,880	1980s	Level 1, 2015

City of Quinhagak (municipality)



Building	Size (in square ft.)	Date constructed	Previous Audits
Water Treatment Plant	2,898	1980s	Level 2, 2015
Public Safety Building	1,058	1980s	Level 2, 2015



Project Status

- Data collection – **Complete**
 - Building inventory
 - Estimated project costs
 - Estimated annual savings
- Financial exploration – **In progress**
 - Information gathering on private/public financial products
 - Review of building owner financials & capacity
- Project and financial proposals – **In progress**
 - Drafting visual proposals for building owners to consider.
 - Site visit and presentation to building owners.



Energy Efficiency Measures:

- Upgrade lighting, replace windows and doors, add insulation, upgrade to energy efficient appliances, and improve ventilation.



Annual energy savings – Just over \$50,000*

**Could be as high as nearly \$65,000.*



Total Estimated Project Costs



Materials, labor, freight,
mobilization: \$224,000

Design and Engineering:
\$33,500

Project Management: \$22,000

Contingency: \$22,000

Total: \$301,500



Financing Options

- Direct loan and loan guarantees through AIDEA and USDA Rural Development.
- Would like to identify private lending institutions that might partner with us.

Cash on hand

- \$70,000

How much money do we need?

- \$230,000-\$300,00

Questions?

