



SENECA
NATION OF INDIANS



SENECA ENERGY
***“EM”-POWERING THE SENECA
NATION***

Anthony Giacobbe – Director of Power & Gas
Marlene Wakefield – Project Manager
Jim Yockey – URS/Baker Tilly

Membership and Territories

Total Enrolled

Membership:

8,221 members

Members Residing

On Territory:

4,239 members

Territories:

- Allegany Territory
- Cattaraugus Territory
- Oil Spring Territory
- Niagara Falls Territory
- Buffalo Creek Territory

Seneca Nation of Indians

Locational Map of the Territories



Elected Government



SNI Tribal Council and Executives



Mission Statement



The mission of Seneca Energy is to ensure the security, prosperity and independence of the Seneca Nation by building a sustainable energy platform and lowering energy costs for the Nation and its residents.

SNI Energy Vision



- Cultivate Energy Independence
- Improve Energy Infrastructure
- Reduce Energy Costs
- Generate Economic Development
- Utilize Renewable Resources
- Provide Environmental Benefits
- Build & Train SNI Workforce
- Form Central Energy Hub



Past Activities and Projects



- DOE First Steps Grant for Strategic Energy Planning
- DOE NREL Anemometer Loan Program
- DOE First Steps Grant for Energy Organization Planning
- DOE Energy Efficiency and Conservation Block Grant
- DOI Natural Gas Assessment
- DOI Strategic Energy Planning Assistance
- Tribal Energy Program – Clean Energy Deployment Grant

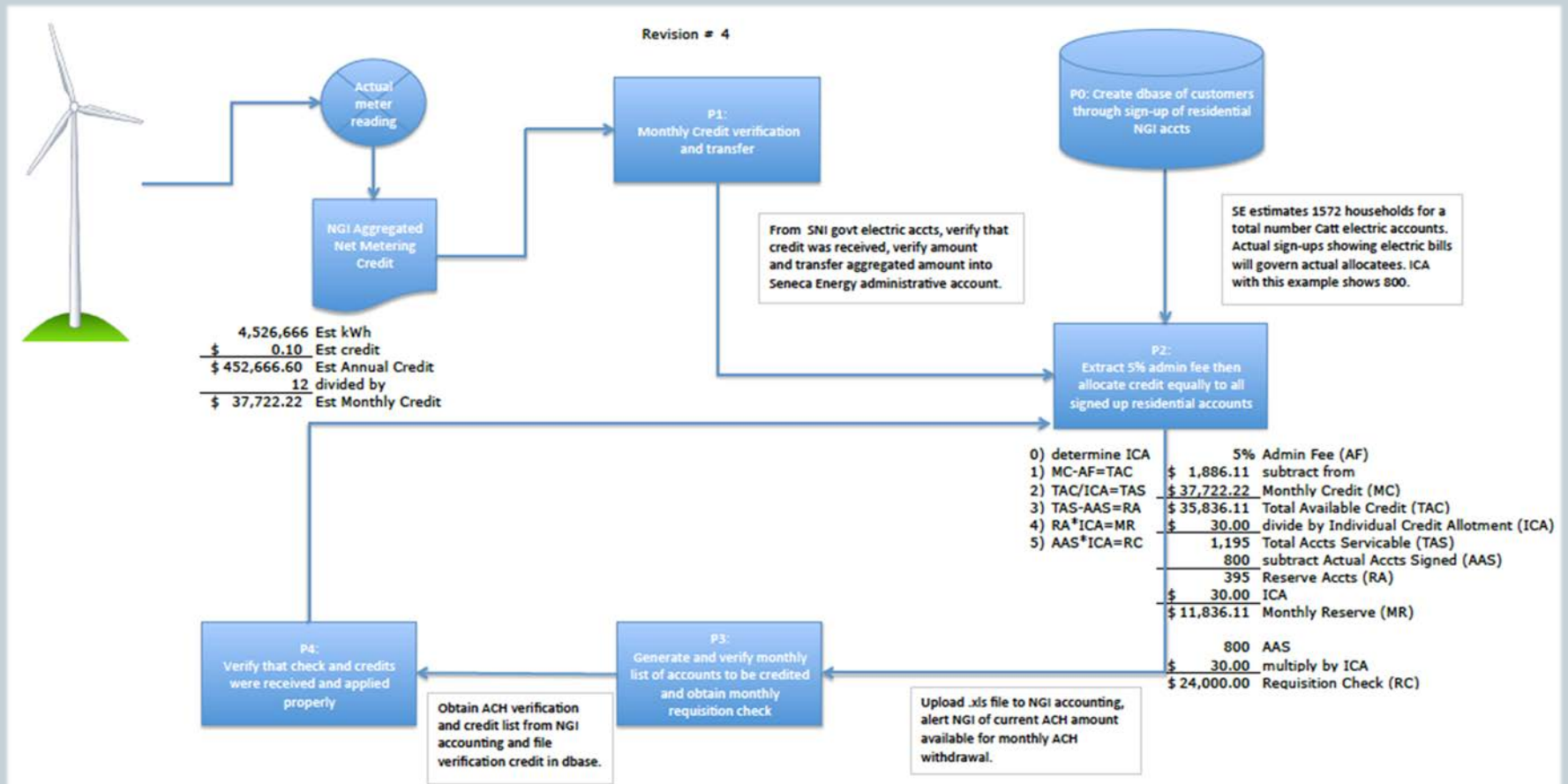
What makes this a Community Energy Project?



- Aggregated Benefit
- Shared Credit
- Distributor of benefit not bill
- Encourages bills to be current
- Tribal capacity in account management/billing

What makes this a Community Energy Project?

Its All About the Process



Process for Benefit Distribution

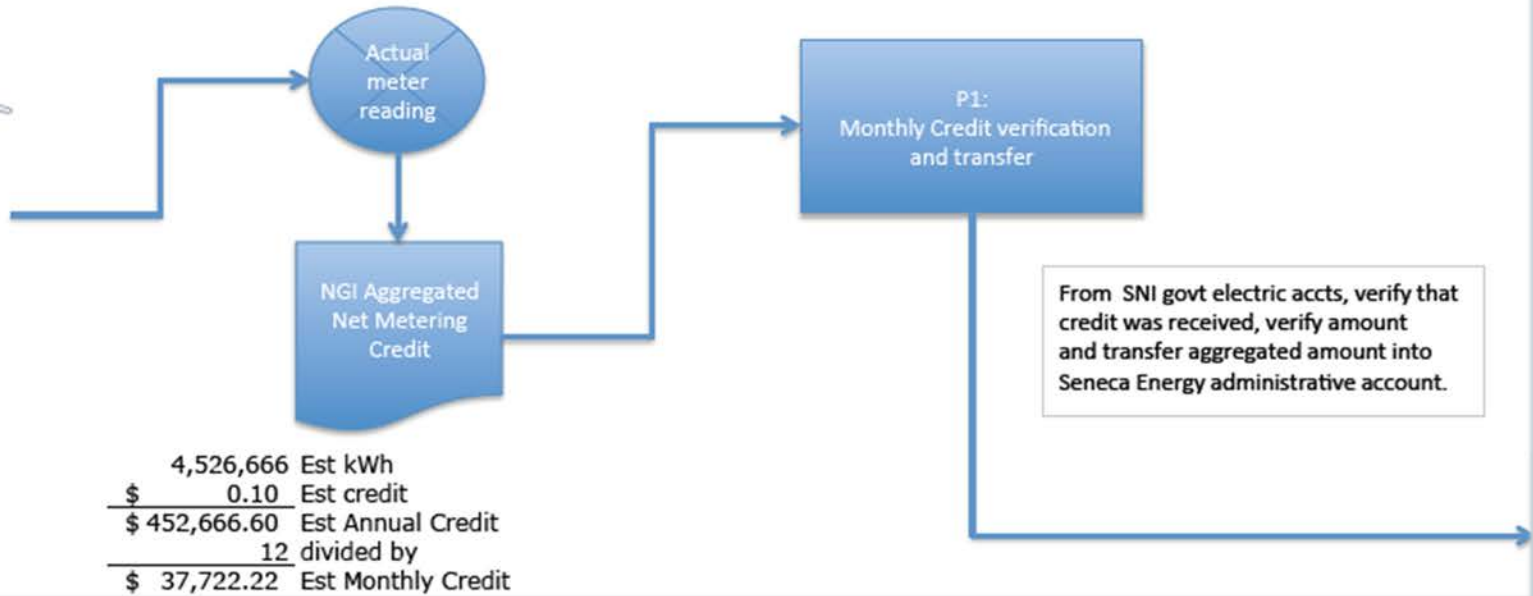


SE estimates 1572 households for a total number Catt electric accounts. Actual sign-ups showing electric bills will govern actual allocatees. ICA with this example shows 800.

Process for Benefit Distribution

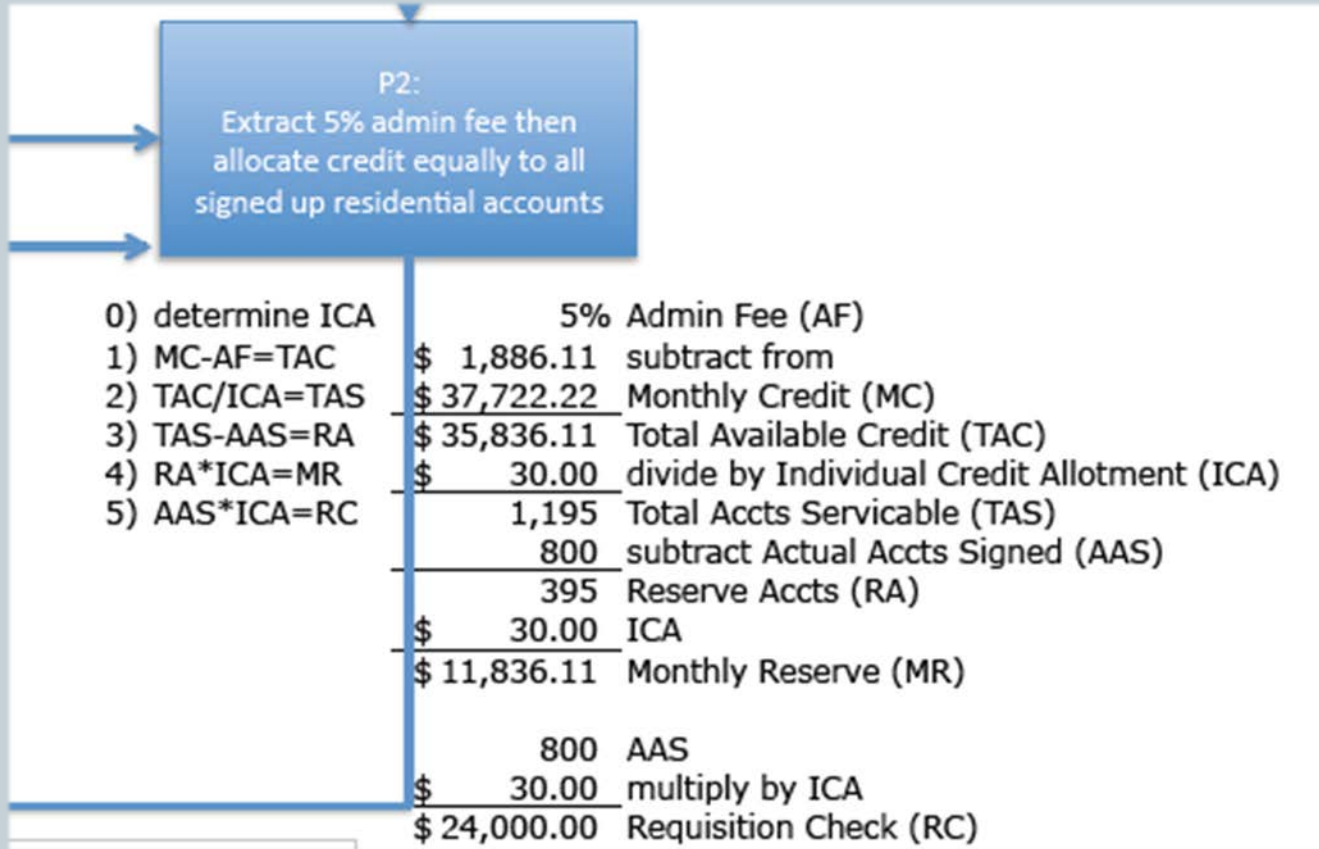


Revision # 4



4,526,666	Est kWh
\$ 0.10	Est credit
\$ 452,666.60	Est Annual Credit
12	divided by
\$ 37,722.22	Est Monthly Credit

Process for Benefit Distribution



Process for Benefit Distribution



P4:
Verify that check and credits
were received and applied
properly

Obtain ACH verification
and credit list from NGI
accounting and file
verification credit in dbase.

P3:
Generate and verify monthly
list of accounts to be credited
and obtain monthly
requisition check

Upload .xls file to NGI accounting,
alert NGI of current ACH amount
available for monthly ACH
withdrawal.



1.5MW Wind Turbine Project



- **\$6+MM project**
 - \$1.5MM DOE TEP Grant
 - \$1MM NYSERDA Construction Grant
 - Project payback – 8-9 years
- **Generation/Net Metering Credit:**
 - $\sim 4,500,000 \times \$0.08 = \sim \$360,000$ savings/yr.
 - Over \$10MM in savings over the life of the project
- **48 Facilities use 10.5MM kWh**
 - spending $\sim \$1M$ for a weighted average cost of 10¢ per kWh
- ***30-40% Total Energy Savings***







Project Preconstruction Activities



- Site selection
- Permitting and Public Outreach
- Modeling, Equipment selection and Agreements
- Consume, Net-meter, PPA or Wholesale
- Interconnection Application

Site Selection



- **Site Identification and Evaluation**
 - Renewable resource potential
 - Cultural, environmental, visual and noise concerns
 - Three-phase power
 - Land ownership

Permitting/Approvals



- **Process/Entities**
 - Tribal Council and Executive approval
 - Environmental Protection Department
 - Conservation Department
 - Tribal Historic Preservation Office
 - Natural Resource Committee
 - Utilities Commission

- **NEPA Environmental Assessment**
 - FAA
 - USFWS
 - ✦ Endangered Species Act
 - DOE - FONSI

Public Outreach



- Council Meetings
- Public Meetings
- Newsletter Articles
- Website Links/Email Blasts
- Environmental Assessment Scoping Notification (30 days)
- Environmental Assessment Comment Period (30 days)

Modeling, Turbine and Agreements



- **Engineering, Procurement & Construction contract**
 - TSA: EPC and WT manufacturer
 - LTSA: SNI and manufacturer
 - No waiver of sovereign immunity

- **Vensys 1.5MW Turbine**
 - German Manufacturer
 - 85 meter hub height
 - Gearless rotor



Interconnection



- Net-metering 2MW limit
- National Grid Utility Delays
- Preliminary Estimate = \$300,000
- Current Estimate = \$821,000
- Utility Contingency (+/- 30) = \$151,000

1.9MW Solar Array



- Investment: ~\$3.5MM
- Project payback: ~11 years
- Site: 7 Acres - SNI Land
- Power: Net-metered
- Financing: Nation Funded
 - Pursuing refinancing through RUS Loan/USDA



Natural Gas Projects



- **Replacing NG pipelines**
 - Improving infrastructure
 - ✦ Eliminating old pipe, leaks
 - Expansion of NG distribution system
 - ✦ Interstate pipeline tap
 - ✦ Expand service to hundreds of customers
- **Completed P&A project**
 - O&M - seven producing wells
 - P&A - 12 wells
- **Pennzoil Field**



Seneca Energy Contacts



- Anthony Giacobbe
Director of Power and Gas
anthony.giacobbe@sni.org
- Marlene Wakefield
Project Manager
marlene.wakefield.@sni.org
- Jim Yockey
URS/Baker Tilly
James.Yockey@bakertilly.com

