We discuss natural systems of Parseval-frame vectors for Hilbert spaces induced by infinite networks of resistors. More precisely, an infinite network of resistors is an infinite graph $G$ with vertices and edges (countable), and with resistors assigned to each edge in $G$. We assume further that $G$ is connected. From this assignment we may then define a Hilbert space $H$ of finite energy voltage functions (voltage distribution on the vertex set $V$.) We show that the finite energy Hilbert space $H$ is a relative reproducing kernel Hilbert space; specifically the dipoles form a non-orthogonal system of vectors in $H$. Moreover, these dipole vectors can be re-scaled to yield a Parseval frame for $H$. Details and applications will be presented in the talk. (Received December 28, 2014)